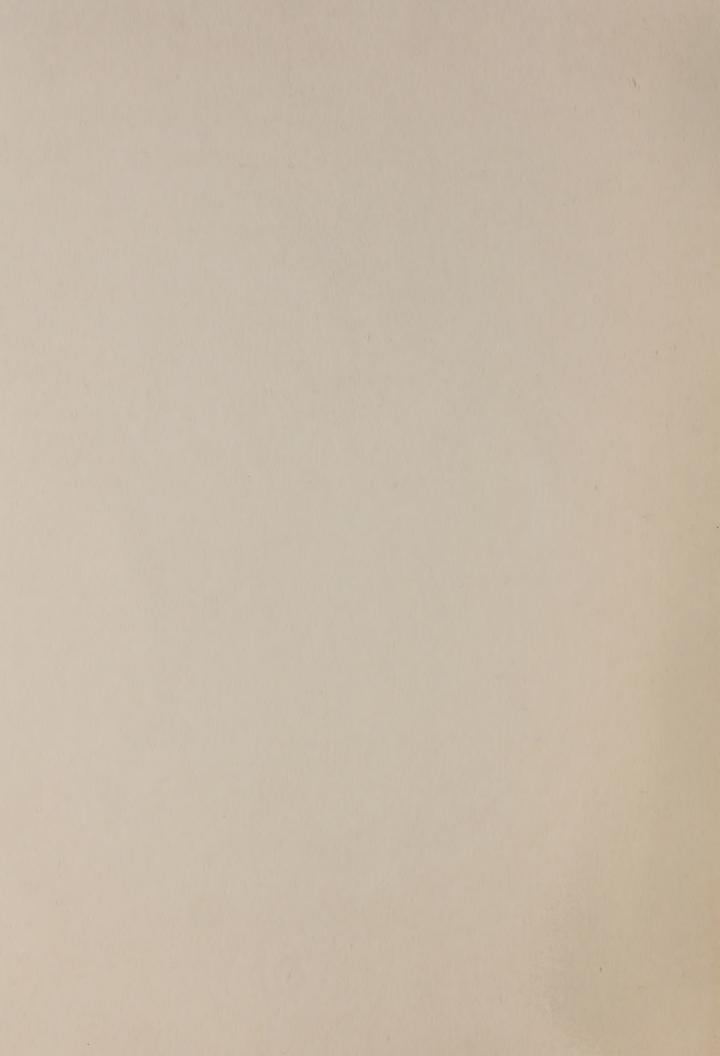
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EMPLOYMENT SURVEY OF 1979 GRADUATES OF ONTARIO UNIVERSITIES

MAJOR FINDINGS &
&
STUDY METHODOLOGY



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EMPLOYMENT SURVEY OF 1979 GRADUATES
OF ONTARIO UNIVERSITIES

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THIS PROJECT WAS FUNDED

UNDER CONTRACT

BY THE MINISTER OF

COLLEGES AND UNIVERSITIES, ONTARIO

PREPARED BY:

THOMPSON LIGHTSTONE & COMPANY LIMITED



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1.0 INTRODUCTION

In September, 1979 the Ministry of Colleges & Universities commissioned Thompson Lightstone & Company Limited to undertake a survey of 1979 Spring graduates from the fifteen Ontario universities, Ryerson Polytechnical Institute and the Ontario College of Art. The major objective of the survey was,

"to obtain data on the employment status of 1979 university graduates within a year after graduation and the relationship between that status and their post-secondary educational experience".

To collect the required information, a questionnaire was mailed to all 1979 Spring graduates from the 17 institutions. Before the mailing, the questionnaire was pre-tested with a small sample of 500 graduates from Queen's University, Guelph University, Waterloo University, the University of Western Ontario, Wilfrid Laurier University, McMaster University, and the University of Toronto. In addition, 10 personal interviews were conducted with graduates in Toronto to discuss the content and structure of a draft copy of the questionnaire after the respondents had completed the survey.

A copy of the questionnaire was mailed to all graduates during late February and early March. Two weeks later a reminder card was mailed urging the graduates to complete and return the questionnaire as soon as possible. Approximately two weeks later, a second copy of the questionnaire was mailed to all graduates from whom a completed questionnaire still had not been received.

The questionnaire covered eight major areas:

- Details of the degree programme recently graduated from.
- Present student status.
- Present employment status.
- If employed since graduation, utilization of various sources in the job search.
- Details of the first job following graduation.
- Details of the current job (if different from the first job).
- Relationship of current job to field of study.
- Miscellaneous areas such as participation in extra curricular activities at university, employment prior to graduation, sex and age.

By June 30, 1980 a total of 21,813 questionnaires had been received.

Of these, 1,705 either arrived too late to be coded and included in the data base or contained too many problems (questions missed or answered incorrectly) to be considered legitimate returns. The remaining 20,108 questionnaires were coded, keypunched, and transferred

to a master tape file. This represents an effective return rate of 56.7% based on the original mailing population of 35,446. This is slightly less than the target of 60%; however, if the universe is reduced by the number of questionnaires which were returned as "not at that address" or "no such address", the rate of return would be slightly greater than 60%.

A series of tests were written to check each questionnaire for logical consistency and that the response to any question matched the range of valid codes. The data base was processed against these tests until all of the questionnaires passed all of the tests.

To offset any bias in the returns, the data was weighted by university and level of qualification to match the distribution of the original mailing population. In total, the questionnaire contained 120 separate data elements (excluding multiple mentions for open-ended questions). Only a small sub-set of the data elements was selected for the primary analysis.

Some of the highlights of the analysis indicate that, of the 1979

Spring graduates from the Ontario universities,

- 25.6% are enrolled either full-time in a continuing education program or in a program leading to professional certification.
- 1.8% are presently not employed and not seeking employment.

- 2.8% are employed, or have been employed, and are now resident outside Canada.
- the remaining 69.7% are part of the labour force. Of these, 86.6% are either employed on a full-time basis, or awaiting the start of a job or recall to a previous job; 8.5% are employed on a part-time basis. The remaining 4.9% are classified as unemployed.
- a slightly higher percentage of females entered the labour force than males. Employment rates were almost identical (95.3% for males compared with 94.8% for females).
- graduates from co-op programmes were more likely to enter the labour force and showed higher employment rates (98.5% compared with 94.9% for graduates from regular programs).
- students who have previous full-time employment experience were also more likely to enter the labour force, as expected.
- on average, there was a period of 2.49 months between completion of degree requirements and first employment. Females took approximately two weeks longer than males before starting employment.
- only 25% of all master's level graduates who are currently employed on a full-time basis reported that a master's level degree was a requirement for employment. As a proxy measure for over, or under, utilization of highly qualified manpower, this result would indicate that master's, and not PhD, level degree graduates are the most under-utilized resource.

- 70.1% of all graduates are still in the province of Ontario; 80.1% are still in Canada. The location of 17.1% of the graduates could not be determined because of insufficient data. The United States accounts for 1.1% of the graduates; the remaining 1.6% have emigrated to other parts of the world.
- 22.5% of all PhD graduates are no longer resident in Canada. The largest proportion (12.9%) have gone to the United States, a trend which has drawn a lot of attention over the past years and appears to be continuing.
- higher starting and current salaries are achieved by graduates from the traditional fields of study such as engineering, health, and commerce and finance. A ranking can be established based on the 50 percent point (i.e. the minimum starting level which would cover at least 50% of all graduates in engineering would be \$18,000, while in fine and applied arts the corresponding data point would be \$10,000).
- males have both higher starting and current salaries than females. However, females have a much lower proportion of graduates from fields of study such as engineering and commerce which have the higher salaries. For example, 21.9% of males graduates from engineering while only 2.3% of females graduated from this field of study. Further investigations of the data base will be required to determine whether salary differences which presently exist between males and females can be explained by field of study or level of qualification.
- graduates from the health programs rated the highest relationship between education and job with a score of 1.13, followed by education and engineering graduates at 1.55. (The score is based on a scale of 1.0 for "very related" to 4.0 for "not at all related"). The average score was 1.88.
- almost 70% of all graduates who are presently employed full-time are "satisfied" with their present salary level (69.1%). Slightly fewer (64.6%) are satisfied with the opportunity for advancement while 75.7% indicated satisfaction with the opportunity for personal initiative.

These are just a few of the results from the analysis of the data collected during this survey. These summary points and other major findings are discussed in more detail in the following section.

The major findings, study methodology, primary tabulations and details of the data file structure are contained in a series of 5 volumes. The contents of each volume are listed below:

VOLUME	TITLE/CONTENTS
I	Major Findings and Study Methodology
II	Tabulations and Means
III	Raw Frequencies
IV	File Layout * Code Book * Logic Tables
V	Summary Returns by University and Program

The remainder of this report is devoted to a presentation of the major findings and study methodology. Also contained in the Appendices are copies of the mailing and project control materials used during the survey.

2.0 MAJOR FINDINGS

Completed questionnaires were received from a total of 20,108 graduates. Of these 92% indicated that they completed the requirements for their most recent degree or diploma in 1979. The remaining graduates specified years ranging from 1946 through to 1980. A small proportion of the sample (0.1%) did not state the year of completion. To have been very rigid in accepting only those graduates who recorded the "year of completion" as 1979 would have reduced the sample to 18,516 respondents (92.1%) Therefore "completion of degree requirements" was not used as a screening or validation factor.

In addition to recording the year and month when the graduate completed the requirements for the most recent degree or diploma, the convocation date was also asked. In this case the number of respondents replying with the year "1979" increases to 19,445 (96.7%).

Again, there is a wide range of responses for the remaining graduates (1959 through to 1981). Slightly more than 1% of the sample either did not know their year of convocation or did not state an answer.

After reviewing the frequencies, it was decided to include for analysis all graduates who indicated either a year of convocation as 1979 or did not state a response. Therefore, the final sample size for analysis was a population of 19,648 graduates.

Several analyses were selected for processing from this sample of 1979 graduates. These analyses can be grouped into the following major areas:

- present employment status and related factors
- migration patterns
- starting and current salary data
- Occupation and SIC classification of current occupation
- relationship of most recent job to education
- level of satisfaction with present salary, opportunity for advancement, and opportunity for personal initiative

The major findings in each of these areas are discussed in the following sections.

2.1 Present Employment Status

The labour force is generally defined to include those who are,

- employed full-time
- awaiting the start of a job or recall to previous employment
- employed part-time
- not employed but seeking employment

Using this definition, 69.7% of all 1979 Spring graduates would be considered a part of the Canadian labour force. Of the remaining 30.3%, 2.8% either are presently resident outside Canada, and therefore would not form part of the labour statistics, or did not provide sufficient information on their questionnaire to enable a determination of employment status to be made. This latter category accounts for less than 0.05%, the remaining 2.8% representing those graduates now resident outside of Canada. Approximately 1.8% of all graduates are not employed and are not seeking employment. The remaining 25.6% are currently enrolled as full-time students including professional certification programs (e.g. articling, medical internship).

In order not to distort the statistics on full-time employment, it was decided that all graduates from the L.L.B. and L.L.L. programs would be considered in the professional certification category.

When analyzed by field of study some interesting differences in employment status are evident although many follow patterns which might be expected from the nature of the degree program. For example, the proportion of graduates entering the labour force is highest in those fields of study more closely related to specific occupations in industry or government. In support of this statement, it can be noted that the fields of study showing the greatest proportion of graduates entering the labour force are highest in Education (86.1%), Engineering and Applied Science (81.7%) and Commerce and Business Administration (72.7%).

As might be expected, those fields of study with high labour force participation rates show the lowest rates in terms of students continuing their education. Those fields of study showing the highest rates for graduates continuing their education include Arts and Science (no major) at 35.3%, and Agriculture and Biological Sciences and the Humanities (31.6% each).

These statistics are presented in Table 1. In addition, the results in Table 1 show the total labour force distributed by those presently employed and those classified as unemployed. Overall, the unemployment rate is low (4.9%) in comparison with present national rates. However, the unemployment rate varies considerably from a low of 2.1% in the Health Professions to a high of 9.1% in Arts and Science with no designated major. In general the arts and social science disciplines show the highest rates of unemployment; the sciences and professions the lowest.

(Reference: Table 1)

TABLE 1

EMPLOYMENT STATUS BY FIELD OF STUDY*

				EMPLOYMENT	STATUS		
FIELD OF STUDY	TOTAL	STUDENT	NOT EMPLOYED RES. OUTSIDE	RES. OUTSIDE	TOTAL	LABOUR	LABOUR FORCE
		PROF. CERT	NOT SEEKING	LANADA/ NOT STATED	FORCE	EMPLOYED	UNEMPLOYED
TOTAL RESPONDENTS (100%)	19649	5033	362	556	13697	13024	673
LIIN TO THE							
EDUCATION / PHE / REC / LEIS URE	16.4%	11.6%	1.2%	~	36.1%	95.9%	4.1%
FINE & APPLIED ARTS	2.9	23.4	4.2	3.9	68.5	21.7	8.3
HUMANITIES & RELATED	13.9	31.6	3.7	2.6	62.0	93.9	0.9
SOCIAL SCIENCE & RELATED	23.2	28.3	2.6	2.7	66.3	93.1	6.9
COMMERCE & BUSINESS ADMINISTRATION	10.2	23.8	0.7	2.8	72.7	2.96	ب ش
AGRICULTURE & BIOLOGICAL SCIENCE	7.9	31.6	1.6	2.8	64.1	92.3	7.7

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

continued ...

TABLE 1 (CONT'D)

EMPLOYMENT STATUS BY FIELD OF STUDY*

				EMPLOYMENT	STATUS		
FIELD OF STUDY	TOTAL	STUDENT	NOT EMPLOYED RES. OUTSIDE	RES. OUTSIDE	TOTAL	LABOUR	FORCE
		PROF. CERT	NOT SEEKING	NOT STATED	FORCE	EMPLOYED	UNEMPLOYED
TOTAL RESPONDENTS (100%)	19649	5033	362	556	13697	13024	673
S ON BEE							
APPLIED SCIENCE	8.6	12.4%	0.5%	2.5%	81.7%	89.76	2.4%
HEALTH PROFESSIONS	5.9	27.3	0.7	2.5	69.5	97.9	2.1
MATH & PHYSICAL SCIENCES	6.4	25.2	1.0	4.8	0.69	97.0	3.0
L.L.B. & L.L.L.	2.3	7.66	0.0	. 0 . 3	0.0	0.0	0.0
ARTS & SCIENCE (no major), OTHER & NOT STATED	1.3	35.3	9.4	2.2	58.0	6.06	9.1
TOTAL	100.0%	25.6%	1.8%	2.8%	69.7%	95.1%	76.4

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

Statistics on labour force participation rates by level of qualification and sex are presented in Table 2 and Table 3 respectively.

Most of the results shown for the analysis by level of qualification could be anticipated following the presentation of employment status by field of study.

Of particular interest, are the results shown for the PhD level of qualification. There has been considerable interest shown over the past years on the lack of opportunities for such highly qualified graduates. The preliminary results of the survey indicate that the unemployment rate for those PhD graduates who would be considered part of the labour force is not significantly higher than any of the other levels of qualification. In fact, the rate is lower than the survey average (3.0% vs 4.9%). What is particularly noteworthy is the proportion of PhD's who are no longer resident in Canada. The data in Table 2 shows that 21.5% of all PhD graduates are no longer resident in Canada. This rate is greater than that shown by any other level of qualification.

Another comparison which has drawn considerable interest is the difference between males and females in terms of labour participation rates. The data in Table 3 shows that there is very little difference. The only variation is evident in the category "not employed and not seeking" where the rate for females is twice that for males (2.6% vs. 1.1%).

(Reference: Tables 2 & 3)

EMPLOYMENT STATUS BY LEVEL OF QUALIFICATION*

				EMPLOYMENT STATUS	STATUS		
LEVEL OF QUALIFICATION	TOTAL	STUDENT	NOT EMPLOYED	EMPLOYED RES. OUTSIDE	TOTAL	LABOUF	LABOUR FORCE
		PROF. CERT	NOT SEEKING	NOT STATED	FORCE	EMPLOYED	UNEMPLOYED
TOTAL RESPONDENTS (100%)	19649	5033	362	556	13697	13024	673
	0	Č.	Ċ.	â	80	òL	ò
BACHELOR'S	%0.9/	25.6%	7.1%	7.5%	%0.60	34.5%	5.5%
1ST PROFESSIONAL	5.3	8.99	0.0	1.2	32.0	99.1	6.0
MASTER'S	10.0	12.3	1.4	5.2	81.0	4.76	2.6
PhD	1.2	3.9	4.0	21.5	74.3	97.0	3.0
DIPLOMA, CERTIFICATE, & OTHER	7.6	18.3	6.0	1.1	7.67	95.5	4.5
TOTAL	100.0%	25.6%	1.8	2.8	69.7	95.1	4.9

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

TABLE 3

EMPLOYMENT STATUS BY SEX*

				EMPLOYMENT STATUS	. STATUS	,	
SEX	TOTAL	STUDENT	NOT EMPLOYED RES. OUTSIDE	RES. OUTSIDE	TOTAL	LABOUR	LABOUR FORCE
		PROF. CERT	NOT SEEKING	NOT STATED	FORCE	EMPLOYED	UNEMPLOYED
TOTAL RESPONDENTS (100%)	19649	5033	362	556	13697	13024	673
MALE	51.0%	26.7%	%	3.2%	81.69	95.3%	4.7%
FEMALE	48.3	24.7	2.6	2.4	70.3	8.46	5.2
NOT STATED	0.7	9.8	4.3	2.6	75.6	1.76	2.9
TOTAL	100.0%	25.6%	1.8%	2.8%	69.7%	95.1%	%6.4

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

The influence of several other factors on labour participation rates were also investigated:

- whether enrolled in a regular or co-op program.
- previous employment experience.
- participation in extra curricular activities during university.

Analyses of these three variables are presented in Tables 4 to 6.

A total of 3.8% of the sample of 1979 graduates had been enrolled in a co-op program. As might be expected they showed a higher labour force participation rate than those students who were enrolled in regular degree program (82.2% vs 69.2%). As noted before, high labour force participation rates are mirrored by correspondingly lower rates for continuing education. The data in Table 4 shows this to be true for the analysis of regular and co-op programs. The proportion of students not employed and not seeking is much lower for students graduating from a co-op program (0.4%) than from a regular degree program (1.9%).

(Reference: Table 4)

TABLE 4

EMPLOYMENT STATUS BY PROGRAM TYPE*

				EMPLOYMENT STATUS	STATUS		
	TOTAL	STUDENT	NOT EMPLOYED RES. OUTSIDE	RES. OUTSIDE	TOTAL	LABOUF	LABOUR FORCE
		PROF. CERT	NOT SEEKING	NOT STATED	FORCE	EMPLOYED	UNEMPLOYED
TOTAL RESPONDENTS (100%)	19649	5033	362	556	13697	13024	673
	95.3%	26.0%	1.9%	2.9%	69.2%	94.9%	5.1%
	3.8	15.6	4.0	1.7	82.2	98.5	7.5
DO NOT KNOW/ NOT STATED/ REFUSED	6.0	30.0	9.0	9.1	67.7	6.7	3,3
	100.0%	25.6%	1.8%	2.8%	69.7	95.1%	76.4

 $^{\,\scriptscriptstyle{?}}$ numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

Almost 82 percent of all graduates had previous summer work experience. An analysis of employment status by previous work experience is presented in Table 5. Only 4.9% of the total sample did not have any work experience prior to graduation and, while the evidence is not conclusive, it appears not to have affected their employment prospects. The labour force participation rate of this group was the lowest at 61.3%. Of those who were considered part of the labour force, 4.6% were classified as unemployed, slightly less than the survey average. Correspondingly, this group showed a higher proportion who were classified as not employed and not seeking. Obviously, there could be a direct cause and effect between "not employed and not seeking" and the fact that the respondent either did not seek employment or was not employed at any time prior to graduation.

Other than the category "no previous work experience prior to graduation", all other previous employment categories showed very similar results.

As might be expected, those students with previous full-time work experience recorded the highest labour participation rate (81.1%).

However, within the labour force category, there was very little distinction in employment rates between types of previous work experience.

Results for summer and part-time experience are almost identical.

(Reference: Table 5)

EMPLOYMENT STATUS BY PREVIOUS WORK EXPERIENCE*

				EMPLOYMENT STATUS	STATUS		
PREVIOUS WORK EXPERIENCE	TOTAL	STUDENT	NOT EMPLOYED RES. OUTSIDE	RES. OUTSIDE	TOTAL	LABOU	LABOUR FORCE
		PROF. CERT	NOT SEEKING	LANADA/ NOT STATED	FORCE	EMPLOYED	UNEMPLOYED
TOTAL RESPONDENTS (100%)	64961	5033	362	556	13697	13024	673
SUMMER	81.6%	27.3%	1.5%	2.3%	68.9%	95.0%	2.0%
PART-TIME	50.1	26.5	1.5	2.4	9.69	6.46	5.1
FULL-TIME	51.4	13.7	8.	3.3	. 81.1	4.46	9.4
CO-OP/INTERNSHIP	13.5	25.4	0.5	2.1	72.0	6.96	3.1
NO EXPERIENCE	6.4	26.4	5.7	9.9	61.3	4.56	9.4
TOTAL	**	25.6%	1.8	2.8	69.7	95.1	4.9

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

^{**} multiple mentions possible.

During the discussions related to the structure and content of the questionnaire, the university representatives indicated an interest in investigating whether or not a graduate's participation in university organizations affected their success in obtaining employment. The labour participation rates for those graduates who indicated either a leadership role or participatory role in university organizations are considerably lower than the rate shown for those people who neither participated nor assumed a leadership role.

The opposite effect is reflected in the category "enrolled in a continuing education program or a program leading to professional certification". The rate for those people who did participate in university organizations is higher than for those people who did not. In other words, those graduates who take an active interest in university organizations are more likely to continue their education than those people who did not participate.

Within the labour force, graduates who did not participate in university organizations show a comparable employment rate with those who did participate. However, the difference is marginal. In conclusion, it appears that the effect of participation in university organizations is reflected more in whether or not a student enters the labour force rather than whether they are employed or unemployed.

(Reference: Table 6)

TABLE 6

EMPLOYMENT STATUS BY PARTICIPATION IN UNIVERSITY ORGANIZATIONS*

				EMPLOYMENY STATUS	STATUS		
FIELD OF STUDY	TOTAL	STUDENT	NOT EMPLOYED RES. OUTSIDE	RES. OUTSIDE	TOTAL	LABOU	LABOUR FORCE
		PROF. CERT	NOT SEEKING	NOT STATED	FORCE	EMPLOYED	UNEMPLOYED
TOTAL RESPONDENTS (100%)	19649	5033	230	1173	13212	13024	188
	0	. (C	0	(Ġ
LEADERSHIP ROLE	21.8%	27.2%	1.2%	% % %	68.5%	95.9%	**
PARTICIPANT	52.8	27.5	1.5	3.0	6.79	8.46	5.2
DID NOT PARTICIPATE	24.3	21.8	2.6	2.3	73.4	94.8	5.2
REFUSED/NOT STATED	3.3	1.61	5.2	2.6	72.9	4.96	3.4
TOTAL	* *	25.6%	.8%	2.8%	69.7%	95.1%	%6.4

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding. multiple mentions possible. -14

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2.2 Job Search Factors

The ability of a university graduate to find suitable employment is based on many factors. Two of the objectives of this survey were to investigate the dynamics of how graduates look for employment and to measure the success which graduates have been able to achieve.

Two areas which were explored in the primary analysis were the length of time from graduation to first employment and the relationship between level of qualification at graduation and the degree level specified for employment.

The calculation of "length of time to first employment" was based upon the difference between the year and month when the first job started and the year and month the degree requirements were completed. Several assumptions are required to define this variable. If the year and month of completing the degree requirements was after the "start" of the first employment, it was considered that the graduate had been employed before graduation. As shown in Table 7, 15.8% of all graduates who are currently employed full-time were actually employed before the date of completing their degree requirements. This rate varied by field of study. The highest rate was recorded by those graduates enrolled in Arts & Science with no stated major field of study (26.7%). The lowest rate was in the Health Professions (5.4%)

When interpreting these results, it is important to recognize that the date of first employment is not the date at which the job was accepted but rather the date on which the graduate began work. Any time which the graduate took off between completing the degree requirements and actually starting work would be classified as "looking for employment" in Table 7.

In an attempt to make the interpretation of the data easier, the percents in Table 7 are shown as cumulative. For example, 15.8% of all graduates were employed before graduation; 37.8% started working within one month after graduation (this 37.8% includes the 15.8% who were in fact employed before graduation). Taking the analysis one step further, 72.1% of all graduates who are currently employed on a full-time basis, started working within three months after graduation. The complimentary conclusion would be that after three months, 27.9% of all graduates (who were later to be employed on a full-time basis) still had not started their first job.

Some of the areas which might be expected to show very short time spans between graduation and employment in fact took longer. For example, the data from Table 7 would seem to indicate that more than 70% of graduates from Engineering and Applied Science took more than one month to find their first employment. However, within two more months, the proportion had decreased to the lowest of any field of study, only 16.4% having not started employment three months after

graduation. What is not shown in Table 7 is whether or not some of these rates show voluntary exclusion from the labour force for reasons such as travel or recreation. The health professions show a similarly high "not employed" rate during the first month decreasing within the next two months to a rate better than average.

Another field of study to note is Education, Physical and Health Education, and Recreational and Leisure programs. The proportion of graduates employed full-time, three months after graduation, appears extremely low at 52.9%, well below the average (72.1%). However, within the following three months the trend is reversed and the number employed six months following completion of their degree requirements is above the overall average (92.6% vs 91.3%). The reason is probably due to the fact that graduates from education did not commence employment until September, four months after completion of degree requirements. This point serves to illustrate that care should be exercised in interpreting the results from Table 7.

For those graduates who eventually found full-time employment, the average length of time between completion of degree requirements and starting first employment was 2.49 months. This average varied by field of study from a low of 1.91 months for graduates from Arts & Science with no reported major to a high of 3.25 months for those graduates from Education and Physical and Health Education programs (noting the previous comment regarding this field).

(Reference: Table 7)

TABLE 7

LENGTH OF TIME TO FIRST EMPLOYMENT BY FIELD OF STUDY* (FULL-TIME EMPLOYED)

LENGTH OF					L.	FIELD OF STUDY	STUDY				
TIME TO FIRST EMPLOYMENT **	TOTAL	EDUC. PHE/ REC/ LEIS.	FINE E APP.	HUMAN. E REL.	SOCIAL SCI.	COMM.	AGRIC. £ BIOL. SCI.	ENG. E APP. SCI.	HEALTH PROF.	MATH & E PHYS.	A.E.S. (NO AMAJOR)
TOTAL RESPONDENTS (100%)	11626	2169	257	1379	2483	373	817	1486	741	804	117
EMPLOYED BEFORE GRADUATION	15,8%	16.8%	16.0%	22.4%	23.0%	16.6%	8.2%	6.7%	5.4%	10.0%	26.7%
LESS THAN ONE MONTH	37.8	35.7	32.8	43.1	45.9	38.9	36.4	28.2	25.8	36.8	50.5
LESS THAN 3 MONTHS	72.1	52.9	74.0	71.5	71.9	76.5	79.8	83.6	79.2	80.8	78.3
LESS THAN 6 MONTHS	91.3	92.6	8.06	89.7	8.98	92.3	91.0	8.46	95.4	91.7	94.8
LESS THAN 9 MONTHS	92.6	7.96	94.2	8.46	92.7	1.96	6.46	97.2	98.5	97.0	95.7
LESS THAN 12 MONTHS	97.2	4.76	0.96	7.96	95.8	97.1	97.4	98.1	98.86	98.1	95.7
MORE THAN 12 MONTHS	9.76	97.9	8.96	1.76	1.96	7.76	97.9	98.6	98.86	98.2	95.7
NOT DEFINED	0.001	6.66	6.66	6.66	8.66	0.001	0.001	0.001	0.001	100.0	100.0
TOTAL	100.0%	18.7%	2.2%	11.9%	21.4%	11.8%	7.0%	12.8%	84.9	%6.9	1.0%
MEANS (months)	2.49	3.25	2.69	2.71	2.71	2.27	2.03	1.93	2.04	2.04	1.91

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding

shown as cumulative data. ネネネ

excluding "employed before graduation"

The length of time to first employment was also analysed by sex. As indicated previously, the average length of time between completion of degree requirements and the start of the first employment was 2.49 months. Males began their employment approximately two weeks before female graduates (2.25 months vs 2.79 months). After one month, only 34.7% of females had started their first employment compared with 39.9% of males (Table 8). As in the previous table, the percents shown are cumulative in an effort to give a better indication of the trend and relative statistics.

(Reference: Table 8)

Another factor of university education which has drawn considerable public attention is the possible under-utilization of highly qualified manpower. From the data collected in this survey, an analysis was made of the relationship between the degree level specified for employment and the level of qualification of the graduate. The results of this analysis for all graduates who are currently employed full-time are presented in Table 9. A total of 39.2% of all graduates who are presently employed full-time indicated that no degree was specified for their present employment.

This rate was highest among those graduates from a diploma or certificate level (41.3%) followed closely by those from the baccalaureate level (40.7%). As might be expected, the lowest rate was recorded by graduates from a first professional degree (5.6%).

TABLE 8

LENGTH OF TIME TO FIRST EMPLOYMENT BY SEX*

LENGTH OF TIME	TOTAL		SEX	
TO FIRST EMPLOYMENT**	TOTAL	MALE	FEMALE	NOT STATED
TOTAL RESPONDENTS (100%)	11626	6169	5365	92
EMPLOYED BEFORE GRADUATION		15.7%	15.9%	13.0%
LESS THAN ONE MONTH		39.9	34.7	75.8
UP TO 3 MONTHS	72.0	76.6	66.7	86.3
UP TO 6 MONTHS	91.2	92.2	90.2	95.6
UP TO 9 MONTHS	95.5	96.0	95.1	97.8
UP TO 12 MONTHS	97.1	97.5	96.8	97.8
MORE THAN 12 MONTHS	97.5	97.9	97.3	97.8
NOT DEFINED	100.0	100.1	100.0	100.0
TOTAL	100.0%	53.1%	46.1%	0.8%
MEAN (MONTHS) ***	2.49	2.25	2.79	1.05

^{*} numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

^{**} shown as cumulative data.

^{***} excluding "employed before graduation"

In order to address the question of under-utilization (or under-employment) of university graduates, it is necessary to focus on the 25 central elements of Table 9, and in particular the diagonal of that sub-matrix. This area is highlighted in Table 9. The higher the percentage shown on the diagonal, the more effective the utilization of the highly qualified manpower. Rates shown in the triangular area above the diagonal represent under-utilization of manpower.

From the results shown in Table 9, it is apparent that the most under-utilized manpower resources are those graduates receiving a Master's level degree. Traditionally, the focus has been on the under-utilization of the PhD recipients. However, only 25% of all graduates receiving a Masters degree reported that this degree level was a requirement for employment. Another 17.7% either did not state the degree level required for employment or did not state whether or not a degree was required. A small proportion (0.1%) reported that a PhD level degree was required for the job. The remaining 57.2% either reported a degree level less than a Masters or indicated that no degree was required for their particular employment. This figure is considerably higher than for any other level of qualification.

As indicated previously, considerable attention has been focused on whether or not PhD graduates are under-utilized. The results of this survey would appear to indicate that graduates with a PhD degree are no more under-utilized than any other degree level, and that, in fact, they are more effectively utilized than graduates at the diploma, certificate, baccalaureate or master's degree levels.

(Reference: Table 9)

TABLE 9

DEGREE SPECIFIED FOR EMPLOYMENT BY LEVEL OF QUALIFICATION*

(FULL-TIME EMPLOYED)

DEGREE SPECIFIED	TOTAL		LEVEL	OF QUALIFICATION	ATION	
		DIPLOMA/ CERTIFICATE	BACHELOR	1ST PROFESSIONAL	MASTER'S	PhD
TOTAL RESPONDENTS (100%)	11626	1056	8645	316	1458	151
NONE	39.2%	41.3%	40.7%	2.6%	38.7%	%6.91
DIPLOMA/CERTIFICATE	4.2	35.3	1.3	0.0	0.3	0.0
В.А.	31.0	5.7	37.7	~~~ ~	18.1	7.1
1ST PROFESSIONAL	1.5	4.0	0.1	4.15	0.1	0.0
MASTER'S	4.0	4.0	4.0	15.0	25.0	8
PhD	9°0	0.1	નઃ નઃ	0.3	0.1	46.3
DEGREE NOT STATED	16.7	15.1	17.2	18.9	13.9	17.8
NOT STATED	2.8	9.1	2.6	7.4	3.8	3.8
TOTAL	100.0%	9.1%	34.42	2.7%	12.5%	1.3%

thumbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding; less than 0.05%

2.3 Migration Patterns

The present location of 1979 graduates was determined from information supplied on "starting" and "current" occupations. If a graduate has never been employed since convocation, then the present location could not be determined and the respondent was classified into the category "never employed". In other cases, insufficient information was given to determine the present location of the graduate. In these cases the data is reported as "Not Stated". Migration patterns of the 1979 Spring graduates are reported by field of study in Table 10 and by level of qualification in Table 11.

A total of 17.1% of the graduates either had never been employed or provided insufficient information to determine present location. Of the remaining graduates, 80.1% are still resident in Canada; 70.1% are still resident in the province of Ontario. The United States accounts for the next largest proportion but at a very small level (1.1%). Africa accounts for 0.7%, Europe for 0.4%, and Asia for 0.2%.

The highest proportion of graduates remaining in Ontario is recorded in Commerce and Business Administration where the level reaches 79.7%. The next highest is in Education and Physical and Health Education categories at 77.6%. Lowest levels are in the Arts and Science (no major) at 59.0% and the Humanities and related programs at 62.4%.

The highest migration levels to other provinces are reported by graduates from Engineering and Applied Science moving to Alberta - a significant movement at 8.4%. The next largest migration is recorded by the Mathematics and Physical Science graduates at 5.4% (also to Alberta).

(Reference: Table 10)

The significant migration of PhD graduates to the U.S.A. and other countries has already been noted (12.9% to the U.S.A. and 9.5% to other countries). No other degree level shows such a significant migration outside Canada. The PhD graduates also showed the highest migration patterns within Canada. Both Quebec and the Prairies draw almost equal proportions at 6.4% and 6.8% respectively. In other words, as the information in Table 11 demonstrates, it is possible that only 50% of all PhD graduates remain in Ontario following completion of their degree. The highest incidence of graduates remaining in Ontario is recorded by Diploma and Certificate programs (77.3%).

(Reference: Table 11)

TABLE 10
MIGRATION PATTERNS BY FIELD OF STUDY*

						FIELD	FIELD OF STUDY	I D Y				
PRESENT LOCATION	TOTAL	EDUC. PHE/ REC LEIS.	FINE S APP. ARTS	HUMAN E REL.	SOCIAL SCI.	COMM.	AGRIC. 8 BIOL. SCI.	ENG. E APP. SCI.	HEALTH PROF.	MATH & E PHYS.	۱.۱.B. د ۱.۱.۱.	A.ES. (NO MAJOR) E N/S
TOTAL RESP. (100%)	19649	3218	195	2739	4563	1999	1545	1917	1151	.1255	451	247
NEWFOUNDLAND	0.3%	0.4%	0.4%	0.1%	0.1%	0.3%	0.0%	0.2%	1.2%	0.2%	0.8%	%4.0
P.E. I.	0.5	4.0	0.0	9.0	0.3	0.2	6.0	0.5	1.8	0.3	0.2	0.0
NOVA SCOTIA	0.3	0.3	0.2	0.5	0.2	0.2	0.7	0.2	8.0	0.1	0.0	0.3
NEW BRUNSWICK	0.1	0.0	0.0	0.2	0.1	0.0	0.3	0.0	0.3	0.0	0.3	0.0
QUEBEC	2.3	1.9	1.0	2.9	1.7	2.5	1.7	3.7	2.5	2.7	2.3	8.0
ONTARIO	70.1	77.6	67.7	62.4	67.8	79.7	64.1	9.69	72.8	6.79	0.97	59.0
MANITOBA	0.5	7.0.	4.0	9.0	0.3	9.0	0.3	0.8	0.1	0.2	0.3	4.0
SASKATCHEWAN	9.0	1.0	0.5	0.5	6.0	9.0	0.2	9.0	6.0	9.0	0.1	8.0
ALBERTA	3.5	2.7	2.0	2.3	3.2	2.9	3.0	8.4	2.9	2.1	5.4	3.6
B.C./¥UKON/ N.W.T.	1.9	1.5	1.9	9.1	1.3	1.4	2.1	2.9	4.5	.2.1	2.8	4.0
SUB-TOTAL (CANADA)	80.1%	86.4%	74.0%	71.6%	75.4%	88.5%	73.3%	86.9%	88.6%	79.6%	84.8%	65.7%
		-										

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

continued ...

TABLE 10 (CONT'D)
MIGRATION PATTERNS BY FIELD OF STUDY*

						FIEL	FIELD OF STUDY	YOK				
PRESENT LOCATION	TOTAL	EDUC. PHE/ REC LEIS.	FINE E APP. ARTS	HUMAN E REL.	SOCIAL SCI.	COMM.	AGRIC. E BIOL.	ENG. E APP. SCI.	НЕАLТН РROF.	MATH & E PHYS. SCI.	L.L.B.	A.ES. (NO MAJOR) E N/S
TOTAL RESP. (100%)	19649	3218	195	2739	4563	1999	1545	1917	1151	1255	451	247
U.S.A.	. 1 %	0.3%	2.7%	1.2%	1.0%	0.7%	1.4%	1.8%	1.9%	%8° -	0.3%	0.0%
CENTRAL AMERICA	0.2	0.3	0.3	0.2	4.0	0.1	0.2	0.2	0.0	4.0	0.0	0.0
SOUTH AMERICA	⊰¢ ⊰¢	* *	0.0	⊀ ⊀	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0
EUROPE	0.4	0.1	0.3	0.7	4.0	0.2	0.5	4.0	4.0	4.0	0.0	0.0
AFRICA	0.7	0.1	0.2	0.2	0.7	1.6	4.0	2.1	0.1	ω <u>.</u>	0.0	1.2
ASIA	0.2	0.1	0.2	0.2	0.2	0.2	0.2	9.0	0.1	4.0	0.0	1.0
OCEANIA	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.0	0.0	0.0
NOT STATED	7.0	6.3	10.8	9.7	8.1	4.9	8.0	3.4	4.4	4.4	8.5	12.8
NEVER EMPLOYED	10.1	6.3	11.3	16.0	13.8	3.8	15.9	4.2	4.5	10.3	6.3	19.3
TOTAL	100.0%	84.91	2.9%	13.9%	23.2%	10.2%	7.9%	9.8%	5.9%	2.3%	84.9	1.3%

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

^{**} less than 0.05%

MIGRATION PATTERNS BY LEVEL OF QUALIFICATION*

TOTAL
BACHELOR'S
14932
1.0% 2.2 69.4 4.7
79.1%
0.8 0.3 0.2 0.1 7.0 7.0
%0.9/

 * numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding :* less than 0.05%

2.4 Starting and Current Salary Data

In the pre-test, some resistance was found towards giving salary data. Because salary information is such a sensitive issue, rather than requesting specific salary data the graduate was given a series of salary ranges and asked to indicate which range best matched both starting and current salary. Between \$6,000 and \$30,000 per annum, the salary ranges increased by increments of \$2,000. Above \$30,000, the increments were increased to \$5,000. The top category was \$40,000 per annum or more. In total, 3.9% of those graduates presently employed full-time did not state, or refused to state, a starting salary range; this increased to 11.2% for data on current salary.

The results from the survey on approximate starting salaries by field of study are presented in Table 12. For the primary analyses, the salary ranges have been grouped into larger categories. In Table 12 the percents are shown as cumulative. For example, 8.3% of graduates who are presently employed full-time started with a salary of less than \$6,000; 25.2% started with a salary of \$10,000 or less.

Increasing the range to \$14,000, the results in Table 12 show that 52.7% of all graduates who are presently employed full-time started with a salary at this level or lower.

Studying the results presented in Table 12, it is possible to see those fields of study which had, on average, higher starting salaries. For example, only 3.9% of graduates from Engineering and Applied Science started at a salary level less than \$10,000. At the other extreme, 51.9% of graduates from programs in the Fine and Applied Arts started at salaries less than \$10,000. Other program areas where graduates started at similarly low levels (i.e. less than \$10,000) are the Humanities and related program areas, and Arts and Science graduates with no major.

Some of the highest starting levels were obtained by graduates in Engineering and Applied Science, the Health Professions, and Commerce and Business Administration.

(Reference: Table 12)

A similar analysis by field of study but showing <u>current</u> salary levels is presented in Table 13. It is interesting to note from this table how the salaries for graduates in Education and Physical and Health Education have increased. Almost 50% of graduates from these programs started at less than \$14,000 per year (48.8%). Now, only 24.7% of graduates from this program earn less than this.

TABLE 12

APPROXIMATE STARTING SALARY BY FIELD OF STUDY* (FULL-TIME EMPLOYED)

						FIELD OF STUDY	F STUDY				
APPROXIMAIE STARTING SALARY**	TOTAL	EDUC. PHE/ REC LEIS.	FINE E APP. ARTS	HUMAN. E REL.	SOCIAL SCI.	COMM.	AGRIC. E BIOL. SCI.	ENG. E APP. SCI.	НЕАСТН РКОF.	MATH E PHYS.	A.E S. (NO MAJOR) E N/S
TOTAL RESPONDENTS (100%)	11626	2169	257	1379	2483	1373	817	1486	741	804	117
LESS THAN \$6,000	8.3%	10.3%	19.9%	13.8%	12.0%	2.0%	.11.0%	1.3%	2.7%	2.9%	16.8%
UP TO \$ 9,999	25.2	26.0	51.9	46.2	35.7	12.5	33.5	3.9	8.9	10.1	45.2
UP TO \$13,999	52.7	48.8	84.5	79.3	9.79	9.64	9.89	18.3	24.7	36.9	70.9
UP TO \$17,999	82.2	82.6	6.16	8.06	85.8	69.7	91.2	75.6	73.0	86.5	78.0
UP TO \$21,999	0.06	9°68	94.3	93.3	92.3	0.48	95.8	94.3	83.7	9.36	87.2
UP TO \$29,999	9.46	92.6	95.5	6.46	1.36	93.8	6.96	97.0	91.1	97.2	7.06
UP TO \$30,000 OR MORE	0.96	5.46	95.9	1.56	8.56	6.96	7.76	97.9	97.1	4.76	93.3
NOT STATED/REFUSED	3.9	5.5	4.2	4.8	4°4	ن د. دن	2.4	2.0	3.0	2.6	6.7
ТОТАL	100.0%	18.7%	2.2%	11.9%	21.4%	11.8%	7.0%	12.8%	84.9	%6.9	1.0%

* numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

^{**} percents shown as cumulative.

Commerce and Business Administration shows a similar increase.

Almost 50% of graduates in this field started at less than \$14,000.

Now, only 25.8% earn a salary below this level.

(Reference: Table 13)

Another format for presenting salary data, without calculating medians, is presented in Table 14. This table shows the minimum salary level which covers at least 50% of the graduates. Data on both starting and current salary levels are shown. Based on this analysis, the graduates receiving the best starting salary appear to be from the Engineering and Applied Science. At least 50% from these programs earn a minimum of \$16,000 per annum. The comparable current salary for this group, also shown in Table 14, is \$18,000. This is still the highest level among all programs. Based on starting salaries, the second best positions are achieved by graduates from the Health Professions and from Mathematics and Physical Sciences at \$14,000 per annum. Using current salary figures, these two program groups are joined by Commerce and Business Administration at \$16,000 per annum.

TABLE 13

APPROXIMATE CURRENT SALARY BY FIELD OF STUDY*

(FULL-TIME EMPLOYED)

T-KM - VO dd d k					-	FIELD OF	· STUDY				
CURRENT SALARY**	TOTAL	EDUC. PHE/ REC LEIS.	FINE & APP.	HUMAN. E REL.	SOCIAL SCI.	COMM.	AGRIC. E BIOL. SCI.	ENG. E APP. SCI.	HEALTH PROF.	MATH & E PHYS.	A.E.S. (NO MAJOR) E. E.
TOTAL RESPONDENTS (100%)	11626	2169	257	1379	2483	1373	817	1486	741	4708	117
LESS THAN \$6,000	1.8%	1.8%		3.0%	1.7%	0.3%	4.1%	0.5%	0.7%	1.0%	2.6%
UP TO \$ 9,999	9.7	7.6	31.2	21.8	13.1	2.8	17.1	1.5	2.3	3.3	14.3
UP TO \$13,999	31.5	24.7	0.89	52.8	42.5	25.8	50.7	8.5	10.7	18.0	45.2
UP TO \$17,999	59.0	6.65	80.1	9.07	63.5	6.64	76.4	37.5	6.95	55.2	57.3
UP TO \$21,999	74.9	4.89	8.98	77.1	75.4	9.59	84.8	78.9	71.8	84.7	6.89
UP TO \$29,999	84.5	77.9	8.06	85.5	4.98	80.1	88.1	88.1	81.4	9.16	79.2
UP TO \$30,000 OR MORE	88.9	9.98	91.2	87.3	89.0	90.3	4.68	9.06	86.8	92.0	85.2
NOT STATED∕REFUSED	11.2	13.4	8.8	12.7	10.9	6.6	10.5	9.5	13.3	7.8	15.0
TOTAL	100.0%	18.7%	2.2%	11.9%	21.45	11.8%	7.0%	12.8%	84.9	%6.9	1.0%

* numbers may not total exactly because of weighting' percents may not sum to 100.0 because of rounding.

^{**} percents shown as cumulative.

The data presented in Table 14 demonstrates that, on average, at least 50% of graduates who are presently employed full-time started with a salary level not less than \$12,000 per annum and 50% now earn a salary not less than \$14,000 per annum. Some of the categories currently earning below the average level include graduates from the Fine and Applied Arts programs and the Humanities and related areas.

(Reference: Table 14)

Starting and current salaries were also analyzed by sex. The results, presented in Tables 15 to 17, are similar in structure to data presented on salaries by field of study. The results presented in Table 15 (approximate starting salary by sex) show that female graduates definitely start at lower salary levels than male graduates. For example, 35.4% of all female graduates started at salary levels less than \$10,000 per annum in comparison with male graduates where only 16.4%, less than half that of female graduates, started at less than \$10,000.

(Reference: Table 15)

TABLE 14

MINIMUM SALARY LEVEL COVERING AT LEAST 50%
OF GRADUATES BY FIELD OF STUDY

FIELD OF STUDY	AT LEAST 50% STARTING	ARY COVERING OF GRADUATES CURRENT
TOTAL RESPONDENTS (100%)	SALARY 11626	SALARY 11626
EDUCATION/PHE	\$12,000	\$14,000
FINE & APPLIED ARTS	\$ 8,000	\$10,000
HUMANITIES & RELATED	\$ 8,000	\$10,000
SOCIAL SCIENCE	\$10,000	\$12,000
COMMERCE & BUS. ADMIN.	\$12,000	\$16,000
AGRIC. & BIOL. SCI.	\$10,000	\$12,000
ENGINEERING & APPLIED SCIENCE	\$16,000	\$18,000
HEALTH PROF.	\$14,000	\$16,000
MATH. & PHYSICIAL SCI.	\$14,000	\$16,000
ARTS & SCIENCE (no major) & NOT STATED	\$ 8,000	\$12,000
TOTAL	\$12,000	\$14,000

TABLE 15

APPROXIMATE STARTING SALARY BY SEX*

			SEX	
STARTING SALARY	TOTAL	MALE,	FEMALE	NOT STATED
TOTAL RESPONDENTS (100%)	11626	6169	5365	92
LESS THAN \$ 6,000	8.3%	5.5%	11.6%	5.4%
UP TO \$ 9,999	25.2	16.4	35.4	14.1
UP TO \$13,999	52.7	43.0	64.3	21.1
UP TO \$17,999	82.2	76.9	89.2	37.0
UP TO \$21,999	91.0	89.1	93.7	71.2
UP TO \$29,999	94.6	94.1	95.6	77.6
UP TO \$30,000 OR MORE	96.0	96.4	96.0	77.6
NOT STATED/REFUSED	3.9	3.6	3.9	22.4
TOTAL	100.0%	53.1%	46.1%	0.8%

^{*} numbers may not total exactly because of weighting, percents may not sum to 100.0 because of rounding.

^{**} percents shown are cumulative.

Analysis of current salary levels shows very similar results (Table 16). Only 23% of male graduates who are employed on a full-time basis earn less than \$14,000 per annum (compared with 43% of male graduates who started at less than \$14,000 per annum). Again, the proportion of female graduates currently earning less than \$14,000 is considerably higher - 41.7% compared with 64.3% of female graduates who started at less than \$14,000).

(Reference: Table 16)

The data in Table 17 shows the minimum salary level covering at least 50% of graduates by sex. At least 50% of all female graduates employed on a full-time basis would be covered by a minimum starting salary of \$10,000 per annum. The similar level for male graduates, on the other hand, would be \$14,000. Both groups show an increase at current salary levels - males to \$16,000 per annum and females to \$12,000 per annum.

(Reference: Table 17)

One of the immediate conclusions that might be drawn from this data is that females, on average, receive lower starting salaries, and are continuing to receive lower salaries, than male graduates.

However, a closer look at the data reveals that, in fact, this may not be a valid conclusion. As indicated previously (Table 13 and Table 14), the highest current salaries are being paid to graduates

TABLE 16

APPROXIMATE CURRENT SALARY BY SEX*

(FULL-TIME EMPLOYED)

	TOTAL		SEX	
CURRENT SALARY**	TOTAL	MALE	FEMALE	NOT STATED
TOTAL RESPONDENTS (100%)	11626	6169	5365	92
LESS THAN \$6,000	1.8%	1.1%	8.7%	1.1%
UP TO \$ 9,999	9.7	5.1	15.1	5.5
UP TO \$13,999	31.5	23.0	41.7	9.5
UP TO \$17,999	59.0	50.5	69.3	25.3
UP TO \$21,999	74.9	71.2	79.3	62.6
UP TO \$29,999	84.5	82.7	86.5	66.9
UP TO \$30,000 OR MORE	88.9	89.3	88.4	70.0
NOT STATED/REFUSED	11.2	10.5	11.7	30.0
TOTAL	100.0%	53.1%	46.1%	0.8%

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding

^{**} percents shown are cumulative

TABLE 17

MINIMUM SALARY LEVEL COVERING AT LEAST 50%

OF GRADUATES BY SEX

SEX		ARY COVERING OF GRADUATES
	STARTING SALARY	CURRENT SALARY
TOTAL RESPONDENTS (100%)	11626	11626
MALE	\$14,000	\$16,000
FEMALE	\$10,000	\$12,000
NOT STATED	\$14,000	\$14,000
TOTAL	\$12,000	\$14,000

from Engineering and Applied Science, and Commerce and Business Administration. An analysis of field of study by sex is presented in Table 18 for respondents who are presently employed on a full-time basis. As this table demonstrates, a greater proportion of males graduated from Engineering and Applied Science and Commerce and Business Administration programs than females. These two program areas account for 38.4% of all male graduates; on the other hand, only 8.8% of all females graduated from these two fields of study. While this is not conclusive evidence of the reasons for differences between male and female graduates in both starting and current salaries, the data does serve to emphasize that considerable care must be exercised in interpreting and analyzing salary information. The data would also seem to indicate that any comparison between male and female graduates will have to be done on a program-byprogram basis and by level of qualification. Also, it may be necessary to introduce other components into the analysis such as occupation and S.I.C. group since these variables will also affect salary levels.

(Reference: Table 18)

TABLE 18

FIELD OF STUDY BY SEX*

(FULL-TIME EMPLOYED)

ELELD OF CTUDY	TOTAL		SEX	
FIELD OF STUDY	TOTAL	MALE	FEMALE	NOT STATED
TOTAL RESPONDENTS (100%)	11626	6169	5365	92
EDUCATION /PHE/ REC/LEIS	18.7%	13.9%	23.6%	47.8%
FINE & APPLIED ARTS	2.2	1.6	2.9	1.1
HUMANITIES & RELATED	11.9	7.5	17.0	9.9
SOCIAL SCIENCE & RELATED	21.4	18.3	25.0	12.8
COMMERCE & BUS. ADMIN.	11.8	16.5	6.5	8.6
AGRIC. & BIOL. SCIENCE	7.0	6.8	7.3	4.4
ENG. & APPLIED SCIENCE	12.8	21.9	2.3	9.6
HEALTH PROFESSIONS	6.4	3.5	9.8	3.6
MATH & PHYSICAL SCIENCES	6.9	9.1	4.5	0.0
ARTS & SCIENCES (no major) & NOT STATED	1.0	0.9	1.1	2.2
TOTAL	100.0%	53.1%	46.1%	0.8%

^{*} numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding.

2.5 S.I.C. Group and Occupation

An analysis of the S.I.C. group for graduates currently employed on a full-time basis is presented in Table 19. This analysis is shown by field of study. As might be expected, there is a definite correlation between certain fields of study and S.I.C. groups. For example, 42% of all graduates from Engineering and Applied Science are presently employed in the manufacturing sector; 18% of all graduates from Agriculture and Biological Science programs are currently employed in the agriculture sector.

Some of the more surprising results are the incidence of graduates from Fine and Applied Arts presently employed in manufacturing (12.1%) and, overall, the low percentage of graduates presently employed in the government sector (8.6%).

The commercial and business service sector includes a wide variety of occupations such as education, health, and business services. It is difficult to make any conclusions related to the data for this group except to note that when added to other S.I.C. groups considered to be in the service sector, the total number of graduates presently employed in the service, or tertiary, sector increases to almost two-thirds (63.9%) of the total sample. The raw data collected in this study has been coded to a sufficient level of detail to permit further analysis of the S.I.C. classification at a later date.

(Reference: Table 19)

TABLE 19

S.I.C. GROUP (CURRENT OCCUPATION) BY FIELD OF STUDY* (FULL-TIME EMPLOYED)

						FIELD 0	FIELD OF STUDY				
s.1.c.	TOTAL	EDUC. PHE/ REC LEIS.	FINE & APP.	HUMAN. E REL.	SOCIAL SCI.	COMM.	AGRIC. E BIOL. SCI.	ENG. ε APP. SCI.	HEALTH PROF.	MATH E PHYS. SCI.	A.E.S. (NO MAJOR) E. E.
TOTAL RESPONDENTS (100%)	11626	2169	257	1379	2483	1373	817	1486	741	804	117
AGRICULTURE	1.5%	0.1%	0.8%	0.5%	84.0	0 %	17.9%	0.3%	0.1%	0.4%	%0.0
FORESTRY	0.3	0.0	0.0	0.0	0.1	0.1	0.5	1.7	0.0	0.0	0.0
FISHING	라 라	0.0	0°0	0.0	नः नः	0.0	0.1	0.1	0.0	0.0	0.0
MINING/01L	2.0	0.1	4°0	9.0	1.0	1.3	9.0	6.3	0.3	9.1	4.3
MANUFACTURING	16.2	2.5	12.1	13.4	10.7	24.4	18.8	42.1	0.7	76.4	13.3
CONSTRUCTION	1.2	0.2	1.9	-	1.2		1.3	3.2	0.0	9.0	1.5
TRANSPORTATION COMMUNICATION UTILITIES	5.4	2°8	3.1	8.0	4.4	4.9	2.1	12.0	0.1	8.3	9.4
TRADE	9.9	2.5	12.7	8.4	7.8	10.2	8.3	2.2	10.0	5.0	10.9

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding less than 0.05%

continued ...

TABLE 19 (CONT'D)

S.I.C. GROUP (CURRENT OCCUPATION) BY FIELD OF STUDY* (FULL-TIME EMPLOYED)

						FIELD OF	STUDY				
s.l.c.	TOTAL	EDUC. PHE/ REC LEIS.	FINE E APP.	HUMAN. E REL.	SOCIAL SCI.	COMM.	AGRIC. E BIOL. SCI.	ENG. E APP. SCI.	нЕАГТН РКОF.	MATH & E PHYS.	A.E S. (NO MAJOR) E N/S
TOTAL RESPONDENTS (100%)	11626	2169	257	1379	2483	1373	817	1486	741	804	117
FINANCE/ INSURANCE/ REAL ESTATE	7.3%	2.3%	1.9%	7.2%	12.3%	17.1%	4.3%	0.7%	0.1%		9.5%
COMMERCIAL / BUSINESS & PERSONAL	48.0	81.6	59.4	49.2	44.3	27.7	32.7	22.2	82.2	30.3	39.3
SERVICES*** FEDERAL GOV'T	3.8	1.7	1.2	6°4	5.6	5.4	5.0	2.4	0.7	3.3	5.8
PROVINCIAL GOV'T	3.0	1.4	5.	2.5	5.3	2.2	5.3	2.6	1.5	2.6	3.4
MUNICIPAL GOV'T	8.	:	4.0	0.8	3.0	2.7	6.0	2.6	1.6	6.0	6.0
NOT DEFINED	3.0	3.5	4.5	3.3	3.8	2.9	2.2	1.4	2.5	2.0	6.7
TOTAL	100.0%	18.7%	2.2%	11.9%	21.4%	11.8%	7.0%	12.8%	6.4%	%6.9	1.0%

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding. less than 0.05% includes Education, Health, Librairies, Engineering, Consulting

Data relating current occupation to field of study are presented in Table 20. The Canadian Classification Dictionary of Occupations (CCDO) was used to code initial and current occupations. The CCDO codes contain four digits to record significant details related to any occupation. Initially, an attempt was made to use the four digit level from the CCDO. However, it soon became apparent that many of the respondents did not provide sufficient details on their jobs to permit coding to this level of detail. Therefore, a decision was made to code to the three digit level of the CCDO.

In Table 20, the data has been grouped to the second digit level.

Also, all clerical and manufacturing tasks such as assembly and construction have been grouped into a single category. Approximately 14% of all graduates who are presently employed on a full-time basis are classified in this category. The proportion is highest in Agriculture and Biological Sciences (25.7%). Other fields of study with correspondingly high rates are Humanities (24.9%) and Arts and Science with no stated major (24.4%).

Most of the remaining cells follow expected patterns. More than one-half of Commerce and Business Administration graduates are in management; 66.6% of Education graduates are in teaching; 63.5% of engineers are employed in engineering occupations and 87.9% of Health graduates are in health related jobs.

(Reference: Table 20)

TABLE 20

CURRENT OCCUPATION BY FIELD OF STUDY*

						FIELD OF	STUDY				
CURRENT	TOTAL	EDUC. PHE/ REC LEIS.	FINE % APP. ARTS	HUMAN. % REL.	SOCIAL	COMM.	AGRIC. E BIOL. SCI.	ENG. E APP. SCI.	HEALTH PROF.	MATH & E PHYS. SCI.	A.E S. (NO MAJOR) ¢ N/S
TOTAL RESPONDENTS (100%)	11626	2169	257	1379	2483	373	817	1486	741	804	117
	17 2%	%T 0	òc	67 61	97.00	67 1%	76	òc	Н	11 8%	1000
Management Physical Sciences	3	0.4	0.8	0.1	1.1	0.1	13.0	2.7	1.7%	19.4	6.0%
Life Sciences	1.2	0.4	0.0	0.2	4.0	0.1	7.9	2.8	0.4	1.4	1.7
Architect/Engineer	9.7	0.3	2.6	0.3	2.2	4.4	2.4	63.5	0.0	0.4	0.0
Math/Statistics	9.4	0.3	4.0	8.0	1.2	5.8	1.7	5.9	0.1	37.3	4.9
Social Sciences	7.5	6.7	14.4	11.4	18.7	8.	2.8	4.0	4.0	0.7	8.7
Teaching/Sport	19.7	9.99	8.7	16.8	13.8	1.3	9.7	3.3	1.7	9.9	16.1
Medicine/Health	7.4	1.2	0.8	0.7	2.1	4.0	12.3	0.0	87.9	0.2	4.1
Art/Lit/Perform	2.7	0.5	32.7	12.0	1.3	4.0	9.0	0.5	0.0	9.0	2.3
Sales	6.7	3.3	7.0	7.8	9.5	13.5	8.0	2.8	9.0	0.4	10.3
Services	2.0	7.3	2.9	۳ ۳	3.0	2.4	4.0	h " 0	0.1	6.0	3.0
Clerical/Assembly/ Construction/											
Operators	14.4	7.0	18.0	24.9	22.0	10.4	25.7	8.0	=	8.2	24.4
Other**	6.0	0.0	4.0	6.1	9.0	0.0	0.0	0.0	0.2	0.0	0.0
Not Stated	2.8	3.3	3.1	3.2	3.7	2.3	2.2	1.5	1.9	9.1	6.5
TOTAL	100.0%	18.7%	2.2%	11.9%	21.4%	11.8%	7.0%	12.8%	84.9	%6.9%	1.0%

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding includes Religion and Law. 4<

2.6 Level of Satisfaction With Relating Current Job To Education

Using the scale of "1" to "4" where "1" would be applied to a job "very related" to the educational background of the graduate while "4" would be interpreted as "not at all related", the 1979 graduates gave an average rating of 1.88 to the relationship between their current job and their most recent education. The mean score varied considerably from a 1.13 by graduates of the Health Professions (interpreted as a job "very related" to their education) to a high of 2.67 scored by Arts and Science graduates with no major. The second highest score was recorded by graduates in the Humanities and related subjects (mean of 2.52). Again, this can be interpreted as a job "not very related" to educational background.

Similar conclusions can be drawn by looking at the percentage of graduates who scored in the very highest category (i.e. "very related"). The highest proportion of graduates indicating that their job was "very related" to their most recent education was recorded by graduates in the Health Professions (88.8%), Education and Physical and Health Education (66.4%), and Engineering and Applied Science (56.3%).

At the other end of the scale "not at all related", the highest scores were given by Arts and Science graduates with no major (30%), Humanities and related program areas (29.6%) and graduates in Social Science (22.4%).

(Reference: Table 21)

TABLE 21

RELATIONSHIP OF CURRENT JOB TO EDUCATION BY FIELD OF STUDY*

						FIELD OF STUDY	- STUDY				
HOW RELATED JOB TO EDUCATION	TOTAL	EDUC. PHE/ REC LEIS.	FINE APPLIED ARTS	HUMAN.	SOC I AL SCI.	COMM.	AGRIC. BIOL. SCI.	ENG. E APP. SCI.	HEALTH PROF.	MATH & E PHYS.	A.E.S. (NO MAJOR) E N/S
TOTAL RESPONDENTS (100%)	11626	2169	257	1379	2483	1373	817	1486	741	804	117
VERY RELATED	47.9%	84.99	36.8%	26.2%	25.9%	50.8%	47.3%	56.3%	88.8%	54.1%	13.1%
SOMEWHAT RELATED	26.7	17.1	35.3	24.3	33.3	34.9	25.4	32.6	6.3	27.0	35.2
NOT VERY RELATED	9.7	4.7	7.7	17.0	15.4	7.6	7.3	7.2	1.0	11.8	16.4
NOT AT ALL RELATED	13.2	9.0	18.2	29.6	22.4	4.3	17.3	2.5	1.7	5.3	30.0
REFUSED / DO NOT KNOW / NOT STATED	2.5	2.7	1.9	2.9	3.1	2.4	2.7	1.4	2.1	1.7	5.2
TOTAL	100.0%	18.7%	2.2%	11.9%	21.4%	11.8%	7.0%	12.8%	84.9	6.9%	1.0%
MEANS**	1.88	1.55	2.07	2.52	2,35	1.65	1.94	1.55	1.13	1.68	2.67

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numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding. based on a weighting of Very Related $(x\ 1)$ to Not At All Related $(x\ 4)$ -K -K

Graduates were also asked to indicate the level of satisfaction in their current job with present salary, opportunity for advancement, and opportunity for personal initiative. The results are crosstabulated with the scores relating present job to field of study in Tables 22 to 24. The results in Table 22 show that, overall, 69.4% of all graduates are either quite satisfied or very satisfied with their present salary level. At the opposite extreme, 28.1% are either not very satisfied or not at all satisfied. The remaining 2.5% either reported that the question was not applicable to them or did not state a response. As might be expected, the proportions vary considerably by how related the respondent felt their present job was to the field of study at graduation.

For example, 76.4% of all graduates who considered that their job was "very related" to their field of study indicated that they were either quite satisfied or very satisfied with their present salary level. On the other hand, only 52.7% of graduates who considered that their present job was "not at all related" to their field of study indicated that they were quite satisfied or very satisfied with their present salary level. Again, using a rating score of "l" to reflect "very satisfied" and "4" to indicate "not at all satisfied", the overall mean was 2.15.

Those graduates who indicated that their job was 'very related' to their field of study scored a mean of 1.89; those who indicated it was "somewhat related" scored 2.15; those who indicated "not very related" scored 2.2, and those who said it was "not at all related" scored 2.5 (in other words, halfway between quite satisfied and not very satisfied).

(Reference: Table 22)

The mean scores for "level of satisfaction with opportunity for advancement" showed a slightly larger range varying from 2.07 for those who indicated that the relationship of their present job to field of study was "very related" to a high of 2.61 for those who considered it "not at all related". In total, 64.6% of the graduates indicated that they were either "quite satisfied" or "very satisfied" with the opportunity for advancement, a result considerably lower than the proportion indicating similar levels of satisfaction with present salary.

(Reference: Table 23)

This trend reverses itself in the mean scores for "level of satis-faction with opportunity for personal initiative" (Table 24). Here, the average score is reduced to 1.91 based on a weighting of 'l' for 'very satisfied' to '4' for 'not at all satisfied'. Those who indicated the relationship of present job to field of study to be

TABLE 22

LEVEL OF SATISFACTION WITH SALARY BY RELATIONSHIP OF JOB TO FIELD OF STUDY*

LEVEL OF SATISFACTION	NTOT		RELATIONSHIP	RELATIONSHIP OF JOB TO FIELD OF STUDY	ELD OF STUDY	
- SALARY	14.0	VERY RELATED	SOMEWHAT RELATED	NOT VERY RELATED	NOT AT ALL RELATED	NOT STATED* REFUSED
TOTAL RESPONDENTS (100%)	11626	5568	3100	1131	1536	292
VERY SATISFIED QUITE SATISFIED	20.4 69.4%	24.6 76.4%	19.8	17.3 68.8%	11.4 52.7%	5.1 15.1%
NOT VERY SATISFIED NOT AT ALL SATISFIED	21.8 6.3 28.1%	18.3 23.1%	23.2	24.2 30.7%	33.3 46.9%	2.7
NOT APPLICABLE/NOT STATED	2.5 2.5%	0.5%	0.2 0.2%	0.4 0.4%	1.0 1.0%	81.8
TOTAL	100.0%	47.9%	26.7%	9.7%	13.2%	2.5%
MEAN**	2,15	1.89	2.15	2.20	2.50	1.91

* numbers may not total exactly because of weighting;

percents may not sum to 100.0 because of rounding. ** based on weights of Very Satisfied (x 1) to Not At ALL Satisfied (x 4)

TABLE 23

ADVANCEMENT BY RELATIONSHIP OF JOB TO FIELD OF STUDY* LEVEL OF SATISFACTION WITH OPPORTUNITY FOR

LEVEL OF SATISFACTION	1		RELATIONSHIP OF JOB TO FIELD OF STUDY	0F JOB TO FI	ELD OF STUDY	
- OPPORTUNITY FOR ADVANCEMENT	IOIAL	VERY RELATED	SOMEWHAT RELATED	NOT VERY RELATED	NOT AT ALL RELATED	NOT STATED* REFUSED
TOTAL RESPONDENTS (100%)	11626	5568	3100	1311	1536	292
VERY SATISFIED QUITE SATISFIED	21.4 64.6%	23.6 72.8%	21.9	20.6 36.5 36.5	31.0	3.7 10.6%
NOT VERY SATISFIED NOT AT ALL SATISFIED	21.7 41.3%	19.0 5.9	23.7 32.3% 8.6	28.4 40.3%	26.T 50.7%	3.5
NOT APPLICABLE/NOT STATED	4.1] 4.1%	2.3%	1.3 1.3%	2.6 2.6%	2.3 2.3%	83.5 83.5%
TOTAL	100.0%	%6.74	26.7%	9.7%	13.2%	2.5%
MEAN**	2.20	2.07	2.19	2.32	2.61	2.27

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding. based on weights of Very Satisfied $(x \ l)$ to Not At All Satisfied $(x \ l)$ -}<

^{*}

"very related" scored 1.68 with 87% indicating that they were either "quite satisfied" or "very satisfied" with the opportunity for personal initiative. Only 48.7%, on the other hand, of those graduates who indicated that their job was "not at all related" to their field of study indicated that they were satisfied with the opportunity for personal initiative. On average, this group scored 2.59.

(Reference: Table 24)

The results from these tables indicate that the relationship of an occupation to the field of study at graduation is a very important factor when considering satisfaction with three of the primary ingredients of a job - salary, opportunity for advancement, and opportunity for personal initiative. It would appear that in order to achieve a reasonable level of satisfaction with these three elements, it is important for the graduate to find an occupation which is related to their field of study. This would appear to be another area which merits further investigation and analysis of the data file.

TABLE 24

LEVEL OF SATISFACTION WITH OPPORTUNITY FOR PERSONAL INITIATIVE BY RELATIONSHIP OF JOB TO FIELD OF STUDY*

LEVEL OF SATISFACTION			RELATIONSHIP	RELATIONSHIP OF JOB TO FIELD OF STUDY	ELD OF STUDY	
- OPPORTUNITY FOR PERSONAL INITIATIVE	T0TAL	VERY RELATED	SOMEWHAT RELATED	NOT VERY RELATED	NOT AT ALL RELATED	NOT STATED* REFUSED
TOTAL RESPONDENTS (100%)	11626	5568	3100	1131	1536	292
VERY SATISFIED QUITE SATISFIED	37.1	46.4 87.0%	34.6 77.4%	29.0 68.0%	20.1	5.4 12.7%
NOT VERY SATISFIED NOT AT ALL SATISFIED	13.3 21.0%	9.1 11.9%	14.7	20.3	24.0 49.5%	2.8
NOT APPLICABLE /NOT STATED	3.4 3.4%	1.1 1.1%	1.1 1.1%	1.8%	1.97	82.8 82.8%
TOTAL	%0°001	47.9%	26.7%	9.7%	13.2%	2.5%
MEAN**	1.91	1.68	1.94	2.11	2.59	2.18

numbers may not total exactly because of weighting; percents may not sum to 100.0 because of rounding. based on weights of Very Satisfied (\times 1) to Not At All Satisfied (\times 4) 40

^{*}

3.0 BACKGROUND AND OBJECTIVES

In 1974, and again in 1975, the Ministry of Colleges and Universities requested Statistics Canada to conduct surveys of the graduates of the Ontario post-secondary system. In 1976, Statistics Canada carried out a similar survey across all Canada:

The purpose of these three studies was to relate the employment experience during the 18 months following graduation to the post-secondary background for a representative group of graduates. In addition, information was obtained on the difficulties experienced by the graduates in finding and retaining employment. Salary data was also collected together with a description of the graduates occupational activity.

Several Ontario universities and all the Colleges of Applied Arts and Technology (CAAT'S) conduct surveys of their own graduates approximately four to eight months following graduation. Many of the question areas in these surveys are similar to those on the provincial and national studies.

No provincial studies were undertaken covering either the 1977 or 1978 graduates.

In 1979, the Ministry of Colleges and Universities commissioned
Thompson Lightstone & Company Limited to conduct a survey of the
1979 Spring graduates from the fifteen Ontario universities, Ryerson
Polytechnical Institute, and the Ontario College of Art. As in the
previous studies, the major objective was,

"to obtain data on the employment status of 1979 university graduates within a year after graduation and the relationship between that status and their post-secondary educational experience".

In fact, there were several objectives that the Ministry wished to achieve. Eleven specific objectives were identified in the Request for Proposals; these included.

- present employment status.
- activities between graduation and the survey date.
- length of time between graduation and first employment.
- methods used in searching for employment.
- details of the first employment and current employment (including level of responsibility, sector of activity, employer location and salary).
- relationship between job requirements and level of qualification.
- relationship between job and field of study.

- relation between graduates expectations, present situation, and future prospects.
- the influence and value of employment and other experiences before graduation on present labour force status.
- the reasons behind the decisions of graduates to continue studies rather than seek employment.
- basic data such as discipline graduated from, level of qualification, institution, grade point average, sex, and age.

Wherever possible, it was suggested that the data collected should be comparable to surveys done in previous years and those done by the institutions themselves. A listing of the study objectives as they appeared in the Request for Proposals is presented in Appendix A. Also included in the Appendix, opposite each objective, is a listing of those questions in the study questionnaire which contain information needed to measure the response.

One of the aims in the survey design was to develop an instrument which could be used in subsequent years. Initially it was thought that the questionnaire might consist of two portions; one portion would be applicable to the provincial requirements while the second part could be tailored to a specific institution's requirements.

Throughout the study, meetings were held with Ministry officials and university representatives. The objective of these meetings was to review the progress of the project and to provide input at various stages

such as questionnaire design and report outputs. In the initial stages of the questionnaire design the universities made requests to have data items added to the main part of the questionnaire. As far as possible, these requests were complied with. Some of the items added included;

- number of post-secondary degrees held, if any.
- additional assistance which could have been provided in areas such as:
 - career counselling
 - preparing resumes
 - interviewing skills
 - job search techniques
 - actual job leads
- level of satisfaction in current job with salary, opportunity for advancement, and opportunity for persona initiative.
- whether or not a degree was specified by the employer (and if so, what degree).
- participation in organization or sports activities during post-secondary education.

4.0 STUDY DESIGN AND METHODOLOGY

The first step in the project was to review questionnaires used in the 1974 and 1975 provincial surveys by Statistics Canada and the national survey conducted in 1976. Previous surveys used by several of the Ontario universities were also reviewed for their content.

Since one of the objectives of the survey was to maintain compatibility with previous studies, every effort was made to construct a questionnaire which would both meet the objectives of the 1979 study while at the same time providing data which could be compared with the previous surveys.

The strategy agreed upon to achieve the design of an effective survey instrument was a three phase study. The first phase involved preliminary design of the questionnaire followed by a review with Ministry and university representatives. Revisions were discussed and a second draft prepared. This survey was then mailed to a representative sample of 500 graduates from 7 institutions. The institutions included in this pilot were Guelph, McMaster, Queen's, Toronto, Waterloo, Western and Wilfred Laurier. In addition, ten personal interviews were conducted with graduates from the University of Toronto who were still resident in the city. Following this pretest, various comments and suggestions made by the respondents were reviewed and several changes incorporated into a revised survey questionnaire.

This was reviewed again with Ministry and university representatives and final changes made. Sufficient copies of the questionnaire were printed and mailed to all 1979 Spring graduates. This mailing was followed approximately two weeks later with a reminder card.

After the lapse of an additional two weeks, a second copy of the questionnaire was mailed to all graduates from whom a completed questionnaire still had not been received. Some follow-up telephone calls were made to graduates from the Ontario College of Art because their response rate was well below that achieved by other institutions.

As questionnaires were returned, they were coded and sent for keypunching and keyverification. A computer program was written to
check each questionnaire for logical consistency in the responses
to each question and also that codes given for each question were
within a valid range. Questionnaires which did not pass these tests
were identified and corrections made. Once the data file had been
cleaned, tabulations requested by the Ministry of Colleges and
Universities were processed.

4.1 Project Management and Reporting

Throughout the course of the study, periodic written and verbal reports were transmitted to the steering committee appointed by the Ministry of Colleges and Universities to oversee the project. The composition of that steering committee is presented in Appendix B.

Also, several meetings were held with university representatives to discuss subjects such as questionnaire design and report outputs. The universities represented at those meetings are also listed in Appendix B.

In total, eleven meetings were held with the steering committee during the course of the project. Representatives of the participating universities were present at a majority of those meetings.

4.2 Questionnaire Design

Before commencing on the design of the questionnaire for this survey, previous questionnaires used by Statistics Canada and several of the Ontario universities were reviewed. The purpose of this review was to ensure that as many of the question areas as possible were repeated with the survey of 1979 graduates. In this way, compatability could be maintained between surveys in successive years. Several reports which contained analyses of the career paths of university and CAAT's graduates also were researched. This review covered the following documents:

- surveys conducted by Statistics Canada (1974, 1975, and 1976)
- surveys conducted by Ontario universities (Guelph, Wilfrid Laurier, Western Ontario, and Toronto)
- survey of 1976 PhD recipients
- CAAT's 1977-78 placement report

Of primary importance, however, was to design a questionnaire which would meet the objectives initially described in the Request for Proposals. The first draft of the questionnaire was prepared and submitted on October 19, 1979. This initial draft was forwarded to the university representatives for study. A meeting was convened involving both university representatives and Ministry officials to

review the first draft. A presentation was made illustrating how this draft met the requirements of the Request for Proposal while at the same time attempting to maintain continuity with previous surveys. Several suggestions were introduced for improvements both to the content of the questionnaire and its layout. These suggestions were incorporated and a second draft submitted to the Ministry.

The first step in the testing of the questionnaire was to mail a draft copy to a selected sample of 1979 graduates. A sample of 500 names was provided by the institutions participating in the study. A copy of the draft questionnaire was forwarded to each of the 500 graduates in the sample. At the same time, an additional 50 names were provided by the University of Toronto. Efforts were made to set up 10 personal interviews from this second sample.

With the mailing of the draft questionnaire, a covering letter was sent outlining the purpose of the survey and requesting the graduate not only to complete the questionnaire but also to comment on the following features:

- content
- phrasing
- structure and flow
- comprehension

A total of 186 returns were received from the initial mailout of 500 questionnaires (38% rate of return). In the initial proposal, it had been estimated that the initial rate of return would be approximately 30 to 35%.

The returns were analyzed by the following characteristics to ensure that the returns were representative:

- the university graduated from
- level of degree or diploma received
- present employment status
- present location of graduates
- type of degree received

The results showed that the returns appeared to be representative of the initial sample (although no statistical analysis was performed).

Valuable comments were received on the format of the questionnaire and its content. In particular several areas were highlighted by the respondents which had proven difficult to answer. Similar responses were found during the 10 personal interviews.

For future reference, it is perhaps valuable to summarize some of the concerns which were expressed during the pre-test of the questionnaire.

Some of the major concerns included the following:

- when employed between two degree programs, should this be considered?
- how to distinguish employment which is related to the first degree but not necessarily to the second, or most recent degree?
- temporary employment (i.e. plan to acquire permanent employment or pursue graduate work).
- temporary unemployment (staying out of employment for purposes such as travel).
- how to measure and indicate "under employment"?
- intent, or immediate, plans for change are not considered.

Based on these suggestions, revisions were made to the draft questionnaire and the subsequent copy submitted to the Ministry and universities for final approval.

Originally, it had been planned to print the questionnaire on both sides of an II \times 25-1/2 page. This would be folded to a 3 \times 8-1/2 format (i.e. 6 plates in length). However, when the universities learned of the estimated mailing cost for a questionnaire of this size and weight, they

urged that an alternative format be considered in an attempt to reduce the questionnaire to the minimum postage required for first class mailing. In the end, this necessitated cutting several questions and reducing the print size in order to make it fit the size and weight constraints. The final format agreed upon was a questionnaire four pages in length each page printed on 8-1/2 x 14. This questionnaire was approved by the Ministry in January 1980 and submitted for typesetting and printing. The questionnaire was also translated into French and sufficient copies printed for all graduates from the University of Ottawa and Laurentian University. Copies of both the English and French versions of the questionnaire were presented in Appendix C of this report.

4.3 Mailing Activities

Five universities elected to conduct their own mailing. Sufficient copies of the questionnaire were forwarded to these universities.

From the remaining universities, four sets of mailing labels for each of the 1979 Spring graduates were requested. In addition, each institution was requested to forward summary statistics of the number of 1979 Spring graduates by field of study and level of qualification. These statistics were used to control the number of returns and ensure that a representative sample was obtained from across the province.

The initial mailing of the questionnaire started in mid-February and was completed by the end of the first week in March.

Reminder cards were sent to all graduates approximately two weeks after the first mailing of the questionnaire. This reminder card emphasized the importance of the survey to educational planning in Ontario and urged the graduate to complete and return the questionnaire as soon as possible. The first reminder cards were mailed on March 10th, 1980.

As each completed questionnaire was received, it was booked by institution, field of study and level of qualification. Copies of selected pages of the booklet used for summarizing the completed questionnaires are presented in Appendix D.

At periodic intervals, summary results were entered onto a Field Management Reporting System. The Field Management System compares the number of returned questionnaires in each cell (defined by university, field of study, and level of qualification) with the original population to produce the following statistics:

- Quota (or universe)
- New Data (i.e. recent returns)
- Updated Totals (recent returns plus returns recorded at last report run)
- Total (reported as a percentage of quota)
- Rate/Day (rate per day required to meet quota)
- Present Rate/Day

With this Field Management System, it is possible to monitor the returns for each institution, field of study, and degree level. A final report run from this system in presented in Volume V.

As completed questionnaires were received, they were matched with a control file. The appropriate label showing the student name and address was removed from this file and affixed to the questionnaire. At the same time, the label was checked on a second control file to indicate that a completed questionnaire had been received.

Mailing of a second copy of the questionnaire commenced on March 24, 1980 to all graduates from whom a completed questionnaire still had not been received. Initially it was estimated that at the commencement of the second mailing the rate of return would be approximately 40% to 45%. In actual fact, the rate was running slightly lower at approximately 30% to 35%. One reason for this may have been the short length of time between the initial mailing of the questionnaires and the start of the second mailing.

The close-off date for coding returned completed questionnaires was set at June 15, 1980. By this date, a total of 20,108 questionnaires had been received which could be included in the data base. Another 1,705 had been received but were either very incomplete, were returned blank, or were returned as "no longer at that address" or "no such address".

4.4 Analysis Of Returns

The 20,108 completed questionnaires represent an overall rate of return of 56.7% based on the initial mailing of 35,441 questionnaires. At the start of the project, it had been estimated that the universe of 1979 Spring graduates was approximately 40,000. From this universe, it was hoped that 25,000 completed questionnaires could be obtained (an anticipated return rate of 62.5%). In the original proposal it was projected that a return rate of between 50 and 55% should be expected from a strategy of an initial mailing of the questionnaire followed by a reminder card and a second mailing of the questionnaire. The actual rate of return fell between these limits.

of the 35,441 initial names provided for the mailing, 1,787 questionnaires were either returned after the cut-off date or were returned by the post office as being "undeliverable" or "not at that address". This number excludes any statistics for four of the universities which conducted their own mailing since data on the number of pieces of mail returned to them as undeliverable was not available. The 1,787 questionnaires which were returned to the original point of mailing represents 5.0% of the initial sample.

A summary of the returns received by institution is presented in Table 25. As can be noted, the returns as a percentage of the initial mailing vary from a low of 39.9% from graduates of the Ontario College of Art to a high of 62.6% for graduates from the University of Guelph. As indicated earlier, the average rate of return was 56.7%. If the questionnaires which were undelivered, or returned by the post office, or which were completed but arrived too late for inclusion in the data base are deducted from the initial mailing, the response return increases to 59.7%.

SUMMARY OF RETURNS BY INSTITUTION

TABLE 25

	· · · · ·																		1	
A % 0F	REVISED	57.8%	61.1	55.5	6.19	4.45	1.49	6.19	64.7	65.4	9.99	43.6	54.2	56.8	61.2	4.49	60.7	60.2	N.A.	59.7%
RETURNS OF	INITIAL	57.0%	9.65	55.4	61.8	53.3	60.2	56.7	62.6	4.09	55.0	39.9	49.7	53.9	58.1	60.5	55.8	55.3	N.A.	56.7%
	TOTAL RETURNS	1,317	1,545	2,145	649	1,490	585	780	1,002	453	427	89	1,316	980	494,4	345	106	1,543	77	20,108
MAILING LESS	LATE RETURNS £ PROBLEMS	2,278	2,441	3,862	1,049	2,740	913	1,260	1,549	693	149	204	2,428	1,724	7,295	536	1,484	2,561	N.A.	33,663
LINDEL IVERED/	LATE RETURNS/ PROBLEMS	314	148	104	24	534	59	116	52	57	135	19	222	95	392	34	130	228	N.A.	1,787 ⁵
	INITIAL	2,309	2,589	3,872	1,051	2,7931	972	1,376	1,601	7502	776	223	2,650	1,819	7,687	570	1,614	2,789	N.A.	35,441
	INSTITUTION	McMASTER	QUEEN'S	WESTERN	WILFRID LAURIER	WATERL00	BROCK	CARLETON	депеть	LAKEHEAD	LAURENTIAN	0.C.A.	OTTAWA	RYERSON	TORONTO	TRENT	WINDSOR	YORK	NOT IDENTIFIED ³	TOTAL

estimate from total 1979 graduates. estimate from number of labels supplied. N.A. not applicable
N/A not available
1. estimate from to
2. estimate from num

institution could not be determined from the return. excludes undelivered mail. m 4 5

of this total, 193 were received after the deadline and could not be coded.

5.0 CODING AND EDITING

As each completed questionnaire was received, the respondent number was first checked against the master control list and the appropriate university code added to the questionnaire. At the same time, the name on the master control list was checked to indicate that a completed questionnaire had been received and booked for that respondent. The name of the respondent was then located in a secondary control file and the mailing label removed and attached to the questionnaire.

Next, the appropriate USIS code was determined based on the degree/diploma received and the major field of study. With this information, the questionnaire was then booked into the Field Management System. The purpose of this system was to record returns by university and field of study (USIS code). Using this system the returns could be monitored against the distribution of the original universe.

The questionnaire was designed to minimize the number of open-ended questions (i.e. a question where the respondent must write in the answer). Wherever possible pre-coded lists were set out for each question and the graduate was asked to indicate the most appropriate response. In some cases the respondent was asked to rank order any answers which were applicable.

The next step in the coding process was to review the completed questionnaire and set out in the margins the appropriate code for each of the pre-coded questions. At the same time, the responses were checked for logical consistency. For example, if a graduate indicated that their present status was "unemployed" then this response should also be indicated in the question on current salary.

Once all pre-coded questions had been dealt with, those questions for which written answers were provided were reviewed. The written responses from approximately 2,000 of the initial questionnaires received were hand tabulated. From this tabulation, several answers which appeared with some regularity were identified and new codes assigned. These codes were then transferred to the questionnaire in the appropriate locations. Any responses for which codes still had not been assigned were put to the side. Once all questionnaires had been coded as completely as possible, all questionnaires which still contained missing codes were dealt with. In some cases, additional codes were assigned based on the number of responses in these remaining questionnaires. When the frequency for any particular response which still had not been coded had been reduced to a minimum level, it was assigned to a category labelled as "other". In the code book accompanying this report, all responses which are grouped into an "other" category for any question are listed so that none of the information collected is lost.

As questionnaires were completed in the coding phase, approximately 15 to 20 percent were drawn at random for verification by the supervisor. Any inaccuracies which were revealed were pointed out to the coding staff and corrective action taken.

Following this verification process, the coded questionnaires were sent to be keypunched and keyverified. During this process, all questionnaires were 100% keyverified. Keypunching was done directly onto tape in batches of 1,000. As each batch was completed, it was turned over to data processing to be cleaned and transferred to a master file.

6.0 DATA PROCESSING

The first step in the processing of the completed questionnaires was the writing of an error program which would check both for consistency of logic throughout the questionnaire and that any response in a single question matched one of the codes assigned. For example, the respondent number was checked against the university code using the original master list of respondent numbers assigned to each university. Graduates who indicated that they were presently unemployed were checked to make sure that responses were not given to those questions on the present employment status. The tests which were written for each question can be summarized as follows:

- ensure that all respondents who are qualified to answer the question do in fact have a response.
- check that all respondents who are not qualified to answer the question have a blank in the appropriate spaces.
- check that all qualified responses match one of the codes assigned to that question.

For the most part, the questionnaires were very well completed. Most of the respondents were able to follow the instructions as indicated on the questionnaire.

As each batch of data from 1,000 respondents was cleaned and verified, it was written in a master file. Once all records for the 20,108 respondents had been cleaned, a final frequency run was produced for each variable. This frequency was reviewed for consistency of bases from one question to the next and also that all codes matched legitimate, acceptable responses. Once this step had been completed the file was ready for processing.

A set of tabulations was defined by the Ministry. Based on these specifications a sketch of how each table would appear was prepared. These tables were then reviewed with the representatives from the universities. In several cases, this group made recommendations to alter the tabulations specifications slightly in order to gain more information for their use. The university representatives also requested additional tables to those which had been defined by the Ministry. Wherever possible, these additional tables were added to the specifications.

A computer program was then written using the SPSS language. This computer program which was used to generate the tables is being delivered to the Ministry, together with the raw data file. Each university in Ontario is also receiving a copy of this program together with its own data file. This will allow both the Ministry and the universities to process additional tables.

The final step was to determine the weighting factors which would be applied to the data. Weighting factors are required because the responses received may not be completely representative of the original universe. For example, rates of return were not equal for all programs or institutions. To analyse the data in its raw form would introduce potential bias in several areas. For example, the rate of return for graduates receiving baccalaureate degrees was different from those receiving masters or PhD level degrees. If the data base was not weighted, responses from one of these categories would be overstated while the other would be understated.

Initially, it had been hoped that the weighting would be based on three variables:

- institution
- field of study
- level of qualification

The data collected for each graduate would have resulted in a weighting table with over 10,000 elements. Obviously, with a population of 20,000 respondents such a detailed weighting structure would have been ludicrous, even recognizing that many of the elements in the weighting matrix would have been zero.

The logic required in the construction of all compound variables used in the analyses is also detailed in the code book. Following the processing of the tabulations and the preparation of all documentation, the files used in the analyses were transferred to the Ministry of Colleges and Universities. These files included:

- the raw data file.
- program to process the tabulations, including logic constructs and labels.
- the SPSS save file (this file permits more economical processing of tabulations than using the original data file).

Each institution also received several files and documentation including,

- raw data file on tape for the institution.
- dump of the first and last 10 records on the tape.
- frequency run for all raw variables.
- program used to process the provincial tabulations; including logic constructs and labels.
- code book.

and the number of responses received from that institution. Should future analyses require a base of the initial population this can be achieved by simply applying the second weighting factor.

The tables requested by the Ministry were processed using the weighting factors which have been described above. These tables were booked and delivered to the Ministry under separate cover. A complete description of the present data file and a manual describing how to access and use the information contained on that file has been documented and provided in a separate volume to this report.

Many of the tables which were delivered to the Ministry are based not upon the raw variables but on combinations. For example, a present employment status is derived from at least six sources including,

- whether or not presently employed.
- if not employed, whether or not seeking employment.
- if not employed, whether has ever been employed.
- present student status (i.e. fulltime or part-time).
- if presently enrolled in continuing education, what degree level and field of study.

7.0 INTERPRETATION AND RELIABILITY OF RESULTS

Results from a sample of 20,108 are accurate to within $\frac{1}{2}$ 0.5% at the 95% confidence level. Results could be biased by non-response. However, the high return rate would reduce this risk of bias. Two distributions would tend to confirm this conclusion. Firstly, the distribution of returns is similar among all institutions (with the exception of the Ontario College of Art) - Table 25. Secondly, the distribution of returns by level of qualification is very similar to the distribution of the original mailing (Table 26). To compare the distributions, it was necessary to exclude Waterloo, Brock and Lakehead from the analysis since data on the original universe was not available.

When analyzing sub-samples of the survey, the standard error of the proportion increases. The standard error of a proportion can be calculated using the following formula, provided that the proportion is not close to 0 or 1;

$$e = \frac{+}{n} \frac{P(1-P)}{n}$$

where, p = proportion

n = sample size

e = standard error

TABLE 26

COMPARISON OF RETURNS WITH ORGINAL UNIVERSE BY LEVEL OF QUALIFICATION

ORIGINAL MAILING*	COMPLETED RETURNS*
75.4%	77.0%
4.4	5.6
10.5	10.6
1.3	1.2
8.0	5.6
0.4	**
	75.4% 4.4 10.5 1.3 8.0

^{*} excluding Waterloo, Brock and Lakehead.

^{**} less than 0.5%

Then, the following confidence interval can be constructed for the estimated proportion (at the 95% confidence level):

At the 90% confidence interval, the factor 1.96 is replaced by 1.65; at 98% the factor becomes 2.33 and at 99% 2.38. The following example from one of the previous analyses will serve to show how this formula can be applied.

In Table 11, it was shown that only 70.4% of PhD graduates have remained in Canada. How reliable is this estimate at the 95% confidence interval? Inserting the respective value into the formula, the following interval is calculated for this statistic:

$$0.704 \stackrel{+}{-} 1.96 \sqrt{\frac{0.704 (1-0.704)}{228}}$$

$$0.704 \pm 1.96 \times 0.0302$$

0.704 ± 0.059

70.4% ± 5.9%

In other words, at the 95% confidence level, the proportion of PhD graduates remaining in Canada is between 64.5% and 76.3%. The standard

error (in the previous example - 5.9%) is dependent on the value of n, in this case the sub-sample size. If the sample size had been increased by 50% to 342, the standard error would be reduced to 4.8%.

For reference, a tabulation of the standard error at the 95% confidence level by sample size and estimated proportion is presented in Table 27.

TABLE 27

ESTIMATED STANDARD ERROR BY
SAMPLE SIZE AND ESTIMATED PROPORTION

(at the 95% confidence level)

				SAMPLE	SIZE			
ESTIMATED PROPORTION	1200	1000	800	600	400	200	100	<u>50</u>
5	1.2	1.3	1.5	1.7	2.1	3.0	*	*
10	1.7	1.9	2.1	2.5	3.0	4.2	6.0	*
20	2.3	2.5	2.8	3.3	4.0	5.7	8.0	*
30	2.6	2.9	3.2	3.8	4.6	6.5	9.2	12.8
40	2.8	3.1	3.5	4.0	4.9	6.9	9.8	13.7
50	2.9	3.2	3.6	4.1	5.0	7.1	10.0	14.0
60	2.8	3.1	3.5	4.0	4.9	6.9	9.8	13.7
70	2.6	2.9	3.2	3.8	4.6	6.5	9.2	12.8
80	2.3	2.5	2.8	3.3	4.0	5.7	8.0	*
90	1.7	1.9	2.1	2.5	3.0	4.2	6.0	*
95	1.2	1.3	1.5	1.7	2.1	3.0	*	*

^{*} Approximations cannot be made.

APPENDIX A

RESEARCH OBJECTIVES

(a) to determine the status of university graduates during a given period within a year after graduation, i.e., labour force status or educational status, full-time or part-time;

5,7,8,11,12,13a,13b,13c

(b) to determine the activities of the graduates between graduation and the date of the survey;

5,7,8,11,12,13a,13b,13c, 14a,14b,17,20,25,26

(c) to determine the length of time between graduation, first employment and/or current employment; 1,20,26

(d) to determine the approach and methods used to obtain employment as well as success rate, intensity and duration of the search;

15,18,19a,19b

(e) to obtain a description of the first and/or current employment, including level of responsibility, sector of activity, employer location and salary; 22a to 22h, 28a to 28h

(f) to determine the relationship between the job requirements and the level of qualification;

33,34

APPENDIX B

UNIVERSITY REPRESENTATIVES

&
SCHEDULE OF PROJECT
REVIEW MEETINGS

UNIVERSITY REPRESENTATIVES

- P. GRAHAM, University of Waterloo
- L. HOFFMAN, University of Toronto
- J. KELLY, Queen's University
- M. MILLAR, Wilfrid Laurier University
- A. SCHEID, University of Western Ontario
- W. WILKINSON, McMaster University
- L. HEYWOOD, University of Guelph
- L. PAYTON, Council of Ontario Universities

PROJECT REVIEW MEETINGS

DATE

OCTOBER 3, 1979

OCTOBER 12, 1979

NOVEMBER 13, 1979

DECEMBER 3, 1979

DECEMBER 14, 1979

DECEMBER 28, 1979

FEBRUARY 4, 1980

FEBRUARY 27, 1980

MARCH 6, 1980

APRIL 22, 1980

JUNE 27, 1980

AUGUST 28, 1980

APPENDIX C

QUESTIONNAIRE

(English & French)

INSTRUCTIONS

Please read the instructions for each question carefully and indicate your response using either of the following marks \square or \square where applicable. In some questions, and indicate your response using either of the following marks $\mathbb Z$ or $\mathbb Z$ where applicable. In some questions, you will be asked to rank all of the responses which apply to you. For these questions, please indicate the ranking using 1, 2, 3, etc. If you find that none of the you.

Please be careful to follow instructions in the questionnaire and complete only those questions which apply to

PLEASE NOTE: If required, this questionnaire is also available in French.

	SECTION A		SECTION B
	To be completed by all respondents		To be completed only by those currently enrolled in a post-secondary education course or pro-
1a	When did you complete the requirements for your most recent degree or diploma? (PLEASE INDICATE BOTH YEAR AND MONTH)		gram, a post-doctoral program, or a program or course leading to professional certification.
	YEAR: 19 MONTH:	9-12	6. In which of the following post-secondary courses or 25.7 programs, are you enrolled? (PLEASE CHECK ONE BOX ONLY)
16) And, when did you receive this degree or diploma (i.e. what was your convocation date)? (PLEASE INDICATE BOTH YEAR AND MONTH)		General interest course (non-degree/non-diploma) Polytechnical Program Community College/Trade School Program Undergraduate (including make-up year) Professional Certification
2.	What level of degree or diploma did you receive?	13-16	MD/DDS/119/111/03/DVIA
	Bachelor's - 3 yr. Bachelor's - 4 yr (including 4 year 8.Ed.) B.Ed. (1 year only)		Other (PLEASE SPECIFY:
	M.D./D.D.S./L.L.B./L.L.L/O.D./D.V.M./M.DIV. Master's (excluding M.DIV.) PhD		7. In which type of program are you currently enrolled? ☐ Regular program ☐ Co-op program
	Diploma/Certificate Other (PLEASE SPECIFY:		_ Not applicable
3a)	Please describe the degree or diploma which you received. (e.g. Master of Applied Science, Bachelor of Education, Bachelor of Commerce). (PLEASE BE AS COMPLETE AS POSSIBLE).	19-21	8. Are you currently enrolled as a (PLEASE CHECK 29 ONE BOX ONLY) full-time student? part-time/extension student? correspondent student?
7h)	DIPLOMA		9a) Please describe the degree, diploma, or certificate 30-32 program in which you are currently enrolled, if applicable (e.g. Bachelor of Education, Master of
55,	as much information as possible (e.g. Civil Engineering rather than just Engineering or Slavic Languages rather than Languages). If more than one major, please describe both.		Science, Phd, Diploma in Business Administration). (PLEASE BE AS COMPLETE AS POSSIBLE) DEGREE/ DIPLOMA/
	FIELD(S) 1.		CERTIFICATE:
42)	STUDY 2.		9b) What is your major field of study? Please provide as much information as possible (e.g. High Energy Physics, Molecular Biology, Journalism, Auto
	Did you graduate from (CHECK <u>ONE</u> BOX ONLY) a regular program? a co-op program?	22	Mechanics). FIELD OF STUDY OR COURSE:
4b)	During your most recent degree or diploma program, were you enrolled as (PLEASE CHECK ONE BOX ONLY)	23	10. Please indicate the ONE statement that best des- 33 at cribes why you decided to continue your educations.
	a full-time student only? a part-time/extension student only? both a full-time and part-time/extension student?		tion? (IF MORE THAN ONE STATEMENT APPLIES, PLEASE 37 32 INDICATE THE RANKING, i.e. 1st. 2nd. 3rd. etc., 'N BOXES PROVIDED.)
	other? (PLEASE SPECIFY:	and a section of another section secti	Further education required for desired employment Wished to study further in a specific field
4c)	Do you hold any other post-secondary degrees?	24	Lack of suitable employment opportunities
	PLEASE LIST:	de de la company	Encouraged by others to continue studies
		1	General interest
	Are you currently enrolled in a post-secondary edu- cation course or program, a post-doctoral program, or a program or course leading to professional cer- tification?	25	Other (PLEASE SPECIFY:
	Yes Go to Question 6, Section 8	1	1
	No Go to Question 11. Section C	-	Please continue with Question 11 Section C

SECTION C To be completed by all respondents

Are you currently (PLEASE C	HECK ONE BOX ONLY)				
= employed on a full-time basis	s ⁷	2	not employed?	Continue with Question 12	3 !
(30 hours or more per week)	C			200311011 12	
employed on a part-time bas not employed but waiting for	Question 1	4a			
job to start or awaiting recall					
Have you ever been employed					_
Go to Question	on 14a	_	No - Continu	ue with Question 13a	
Are you currently looking for er	mployment?				
☐ Yes — Go to Questi	ion 15	Ξ	No Contine	ue with Question 13b	
Have you ever looked for emplo	yment since complet	ting the requirement	ts for your most rec	ent degree or diplom	na?
☐ Yes — Go to Questi	on 15	=	No Continu	ue with Question 13c	
For what reasons have you not	looked for employm	ent since completio	on of your most reci	ent degree or diplom	na?
PLEASE CHECK THE MOST APPROP		_			
☐ Further education ☐ Travel	☐ Health reaso	ons	Other (PLEASE SPEC	SIFY:	
	ou have not looked for your most recent of			ection F	
1040110110110					
Are you currently looking for e	mployment or anothe	er job?			
☐ Yes → Go to Question	15	=	No Contin	nue with Question 14	ь
Did you look for employment	since starting the pr	ogram from which	you received your	most recent degree	or
diploma?					
☐ Yes — Continue with Q	luestion 15	Ξ	No Go to (Question 20	
When looking for employment	, several sources are	available for assis	tance. Some of the	most frequently us	sed
sources are listed in the table b	elow. Please comple	te the following qu	estions for each sou	irce.	
RATING SCALE	15a	15b	15c	15d	
1 - Very Useful	Please indicate whether or not you used each	15b Please indicate how useful the source was	15c Using the same scale, please rate now useful	And finally, did at least one job offer result	
1 - Very Useful 2 - Quite Useful 3 - Not Very Useful	Please indicate whether	Please indicate how useful the source was in providing information for the job search. Rate	Using the same scale, please rate now usaful each source used was in obtaining job inter-	And finally, did at least	
1 - Very Useful 2 - Quite Useful	Please indicate whether or not you used each source in your search	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according	Using the same scale, please rate now useful each source used was	And finally, did at least one job offer result from each source which	
1 - Very Useful 2 - Quite Useful 3 - Not Very Useful	Please indicate whether or not you used each source in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left.	Using the same scale, please rate now useful each source used was in octaining job interviews.	And finally, did at least one job offer result from each source which was used?	
1 - Very Useful 2 - Quite Useful 3 - Not Very Useful 4 - Not at all Useful	Please indicate whether or not you used each source in your search	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to	Using the same scale, please rate now usaful each source used was in obtaining job inter-	And finally, did at least one job offer result from each source which	
1 - Very Useful 2 - Quite Useful 3 - Not Very Useful 4 - Not at all Useful Private Employment Agencies	Please indicate whether or not you used each source in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left.	Using the same scale, please rate now useful each source used was in octaining job interviews.	And finally, did at least one job offer result from each source which was used?	
1 - Very Useful 2 - Quite Useful 3 - Not Very Useful 4 - Not at all Useful Private Employment Agencies Canade Manpower Cantres	Please indicate whether or not you used each source in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left.	Using the same scale, please rate now useful each source used was in octaining job interviews.	And finally, did at least one job offer result from each source which was used?	
1 - Very Useful 2 - Quite Useful 3 - Not Very Useful 4 - Not at all Useful Private Employment Agencies	Please indicate whether or not you used each source in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left.	Using the same scale, please rate now useful each source used was in octaining job interviews.	And finally, did at least one job offer result from each source which was used?	
1 - Very Useful 2 - Quite Useful 3 - Not Very Useful 4 - Not at all Useful Private Employment Agencies Canade Manpower Cantres University or Institution Career Counsel-	Please indicate whether or not you used each source in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left.	Using the same scale, please rate now useful each source used was in octaining job interviews.	And finally, did at least one job offer result from each source which was used?	
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Private Employment Agencies Canade Manpower Cantres University or instruction Career Counseling or Career Information Centres University or Instruction Placement Centres On Campus Recruiting University or Institution Placement Centres Co-op or Field Employment Newspaper Advertisements Friends or relatives Letters to employers who had not advertised job openings In-person visits to optential employers not advertising job openings Professional associations or unions	Please indicate whether or not you used each source in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left.	Using the same scale, please rate now useful each source used was in octaning job interviews. RATING	And finally, did at least one job offer result from each source which was used? YES NO	D
1 - Very Useful 2 - Cuite Useful 3 - Not Very Useful 4 - Not at all Useful Private Employment Agencies Canade Manpower Centres University or Institution Career Counseling or Career Information Centres University or Institution Placement Centres Co-op or Field Employment Newspaper Advertisements Friends or relatives Latters to employers who had not advertised job openings In-person visits to obtential employers not advertised job openings Professors/ academic departments Former employers Professors/ academic departments Former employers Professors/ academic departments Co-op or Field Employers In-person visits to obtential employers In-person visits to obtential employers Professors/ academic departments Former employers Professors/ academic departments Professors/ academic d	Please indicate whether or not you used each source in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left.	Using the same scale, please rate now useful each source used was in obtaining job interviews. RATING Harring Indiana Indian	And finally, did at least one job offer result from each source which was used? YES NO	
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1 - Very Useful 2 - Cuite Useful 3 - Not Very Useful 3 - Not Very Useful 4 - Not at all Useful 5 - Canade Manpower Centres 9 University or Institution Career Counseling or Career Information Centres 9 On Campus Recruiting 9 University or Institution Placement 9 Centres 1 Co-op or Field Employment 1 Newspaper Advertisementa 1 Friends or relatives 1 Letters to employers who had not advertised job openings 1 In-person visits to potential employers 1 not advertised job openings 1 Professional associations or unions 1 Friends of the following of the PLEASE SPECIFY: 1	Please indicate whether or not you used each source in your search for employment. YES NO YES NO The search for employment in your search for employment.	Please indicate how useful the source was in providing information for the job search. Rate each source used in the box provided according to the rating scale to the left. RATING TO which you could MENT). MUCH MORE ASSISTANCE A	Using the same scale, please rate now useful each source used was in octaning job interviews. RATING RATING SOME MORE MORE MC SSISTANCE ASSIS	And finally, did at least one job offer result from each source which was used? YES NO YES NO O ASSISTANCE WAS REQUIRED	

	Please indicate when you began to search for your first employment after completing the requirements for your most recent degree or diploma. (If you began your search before completing the requirements, please still record the year and month when you began your search.) (PLEASE INDICATE BOTH YEAR AND MONTH) YEAR: 19 MONTH: Approximately how many initial contacts with dif-		22. Please describe the details of your first job since completing the requirements for your most recent degree or diploma according to the specifications outlined below. (IT IS IMPORTANT TO BE AS DETAILED AS POSSIBLE) a) JOB TITLE: (e.g. Systems Analyst, Cartified Industrial Accountant, Civil Engineer, Advertising Salesman) b) What TYPE OF WORK do, or did, you do? (e.g. Insurance Sales, Data Processing, Landscape Architecture).	55-68
10.	ferent potential employers (either by phone, mail or in person) did you make from the time you started your job search until you accepted your first job? (If you have not found employment since graduation, please indicate total number of contacts until pre-		c) NAME OF ORGANIZATION? (if self-employed, please indicate)	
	sent time.)		d) CITY:	
	NUMBER OF INITIAL CONTACTS	48-50	e) PROVINCE/STATE:	59-7 1
19a	Approximately how many job interviews did these contacts generate?		f) COUNTRY: (if outside Canada)	
	NUMBER OF INTERVIEWS	51-52	g) What kind of business, industry or service is this	72-74
19b	How many actual job offers did you receive?		organization? (e.g. iron ore mining, actuarial con- sulting, wholesale grocery, general insurance agency, retail book store). (IT IS IMPORTANT TO BE AS DETAIL- ED AS POSSIBLE)	
	NUMBER OF JOB OFFERS	53-54		
	If you have not been employed, either full-time			
	or part-time, since completing the requirements for your most recent degree or diploma, please			
	go to Question 35, Section E.			
_		_	h) EMPLOYMENT STATUS (with this organization): Full-time (30 hrs. or more per week)	75
	SECTION D		Part-time	
	To be completed only by those currently employed, or those who have held at least one job, either full-time or part-time, since completing the requirements for their most recent degree or diploma. If more than one job was held at the same time, please complete for the job which occupied the most time per week.		23. Did you work full-time for this employer before beginning, or during, your most recent degree or diploma program? Yes Yes Yes, as a co-op student Yes, in field placement or internship	76
20.	When did you (or will you) start your <u>first</u> job after completing the requirements for your most recent degree or diploma? (PLEASE RECORD YEAR AND		24. And what was your approximate starting salary? (if self-employed, please indicate anticipated yearly income). (PLEASE CHECK ONE BOX ONLY)	
	MONTH) If the job was obtained or started before completing the degree or diploma requirements, please still record the year and month the job was first started. YEAR: 19 MONTH:	55-58	Less than \$6,000 per annum	l. k. k. l.
21.	What was the primary reason for accepting your first job since completion of the requirements for your most recent degree or diploma? (IF MORE THAN ONE REASON APPLIES, PLEASE INDICATE RANKING, i.e.,		25. Have you changed jobs (i.e. type of work) since completing the requirements for your most recent degree or diploma?	73
	1st, 2nd, 3rd, IN BOXES)		Yes (my current job is different	
	Acceptable/good salary Near place of residence/good location		from my first job since Continue with completing degree/diploma Question 26	h :
	interesting work		requirements)	_
	Good opportunity for advancement		No (my current job is my first	
	Provides stable/secure future		job since completing degree/ diploma requirements) Go to	
	Financially sound organization		Currently not employed	
	Relates to my academic background			
	Only employment opportunity available	i	26. When did you start your current job? IPLEASE INDI- CATE BOTH YEAR AND MONTH)	CD3
	Matched my career objectives	;	CATE BUTH TEAH AND MONTH)	
	Required creative talents	İ	YEAR: 19 MONTH:	7-10
	Intellectually challenging/stimulating	:	27 Did you work full time for this ampliant to	
	To accompany spouse	1	 Did you work full-time for this employer before starting, or during, your most recent degree or 	11
	Other (PLEASE SPECIFY:		diploma program?	
			Yes, as a co-op student Yes, in field placement or internship No	

28.	ac	ow please describe the details of your <u>current</u> job cording to the specifications outlined below. (IT IS PORTANT TO BE AS DETAILED AS POSSIBLE)	12 15	29.	men	t? IIF MORE TH CATE RANKING	AN ONE STATE , i.e. 1st, 2nd, et	for changing emp EMENT APPLIES, PLI IG., IN BOXES PROVI	EASE 25-26
	ai	JOB TITLE: (e.g. Systems Analyst, Certified Industrial			H	·	o in my field o		
		Accountant, Civil Engineer, Advertising Salesman)			H	_	career objecti hange location	_	
	ы	What TYPE OF WORK do you do? (e.g. Insurance			Ħ	Better salary	nange location		
		Sales, Data Processing, Landscape Architecture)			Ī		riate for my c	areer objectives	
							tunity for adva		
	C)	NAME OF ORGANIZATION? (if self-employed, please indicate)						previous employme	ent
						More challen	ging/stimulati	ng employment	
	d)	CITY: et PROVINCE/STATE:	16-18			To accompa	ny spouse		
						Other (PLEA	SE SPECIFY:		
	f)	COUNTRY: (if outside Canada))	
	g)	What kind of business, industry or service is this organization? (e.g. iron ore mining, actuarial consulting, wholesale grocery, general insurance agency, retail book store). (IT IS IMPORTANT TO BE AS DETAILED AS POSSIBLE)	19-21	30.	imat CDC \$	e current sali currently not el ess than \$6000 6,000 to \$ 7, 8,000 to \$ 9.	ary. (PLEASE) mployed) per annum 999 p.a. 999 p.a.	indicate your app CHECK <u>ONE</u> BOX ON \$20,000 to \$21 \$22,000 to \$23 \$24,000 to \$25 \$26,000 to \$27 \$28,000 to \$29	(LY) ,999 p.a. ,999 p.a. ,999 p.a.
					\$	10,000 to \$11, 12,000 to \$13,	999 p.a.	<u> </u>	.559 p.a.
	n)	EMPLOYMENT STATUS (with this organization): Full-time (30 hrs. or more per week) Part-time	72		□ \$	14,000 to \$15, 16,000 to \$17, 18,000 to \$19,	999 p.a.	= \$35,000 to \$39 = \$40,000 or mod	,999 p.a. re p.a.
31.		ninking of your most recent job, how satisfied are,	, (or w	ere)	ou· w	ith the follow	ving? (PLEASE	CHECK ONE BOX C	NLY
	FO	R EACH STATEMENTI	VE			QUITE	NOT VERY	NOT AT ALL	
	-1	salary	SATIS	FIED		SATISFIED	SATISFIED	SATISFIED	31
	ы	opportunity for advancement		=			Ē	101	. 32
		opportunity for personal initiative						fallowing stateme	
32.	(P)	till thinking of your most recent job, please indicat LEASE CHECK <u>ONE</u> BOX ONLY FOR <u>EACH</u> STATEMENT)	STRO	NGLY REE	(10)	AGREE	DISAGREE	STRONGLY DISAGREE	
	3)	The job matched my expectations at the time it		-		AUNCE	DISAGRES	DISAGREE	7.4
		was offered		=		Ē	Ξ	Ξ	35
	ct	The job could have been performed without the degree/or diploma most recently received		2		5	Ξ	_ =	36
33.	Н	ow related is your most recent job to the field of CONTROL SOMEWHA	-study T	of yo	_	ost recent de NOT VERY RELATED		oma. — NOT AT ALL — RELATED	37
34.	W	as a degree or diploma specified by your employ		a requ	uirem		most recent	job?	70
		☐ Yes (PLEASE SPECIFY DEGREE REQU	IIRED:			□ No			.78
						_)			39-41
			SECT	ION	E				
		To be answ	ered	by al	res	pondents			
35.	in	approximately how many organizations or sports	s did y	ou p	articij	pate during y	our post-sec	ondary education	1?
		NUMBER							42-43
36.	0	verall, would you classify your involvement in the		_		not applicab		OX ONLY!	14
37.	P	lease record total work experience since complete following categories. (PLEASE RECORD IN MONTH:	ng you	ur sec	onda	ery school ed	ucation, or e	quivalent, for eac	th of
	al	Summer jobs - full-time (30 hrs. or more per week)			i	MONT	нѕ		45-47
	b	Part-time (less than 30 hrs./wk)			1	тисм	нѕ		48-50
	c	Full-time (excluding summer)			1	MONT	HS		51-53
	đ	Co-op, Field Placement or Internship			:	MONT	нѕ		54-56
38	P	lease indicate: a) Year of birth: 19							57-58
~	. ,	b) Sex:	0		-] Female			59
			HAN	K Y	วน				

DIRECTIVES

Veuillez lire attentivement les directives s'appliquant à daque question et indiquer vos réponses en traçant un ✓ ou 🗵 dans la ou les case(s) appropriée(s). Il se peut que pour cartaines questions vous deviez classer par ordre d'importance toutes les réponses qui s'appliquent à votre cas. Si aucune des réponses données ne s'ap-

plique, veuillez écrire votre réponse près de la question. Si vous écrivez une réponse, veuillez l'écrire en lettres moulées, pour qu'elle soit lisible. Veuillez suivre exacte-ment les directives du questionnaire et remplir unique-ment les questions qui s'appliquent à votre cas.

SECTION B

SECTION A

1al	Catte section doit être remplie par tous les repondants Quand avez-vous satisfait aux conditions requises pour l'obtention du plus récent grade ou diplôme que vous avez reçu? (VEUILLEZ INDIQUER L'ANNEE ET		Catte section doit être remplie uniquement par ceux qui sont actuellement inscrits à un cours ou un programme d'études post-secondaires, un programme d'études au niveau post-doctoral ou un programme menant à un certificat professionnel.
16)	LE MOIS: ANNÉE: 19 MOIS: Et quand avez-vous reçu ce grade ou diplôme, c'està-dire, quelle a été la date de remise de votre diplôme? (VEUILLEZ INDIQUER L'ANNÉE ET LE MOIS)	9-12	6. Parmi les cours ou programmes d'études post- 25.2 secondaires suivants, quel est celui auquel vous êtes inscrit? 'ME COCHEZ QU'UNE SEULE CASE) — Cours de formation générale (ne menant pas à un grade/diplôme) — Formation polytechnique — Collège Communautaire/Ecole de métiers
2.	ANNÉE: 19 MOIS: Quel grade ou diplôme avez-vous reçu? (NE COCHEZ OU'UNE SEULE CASE) Baccalauréat général Baccalauréat spécialisé (comprend le B.Ed. de 4 ans) B.Ed. (1 an seulement)	13-16 17-18	1er cycle (comprend l'annee de rattrapage) Certificat professionnel Formation des Enseignants M.D./D.D.S./L.L.B./L.L.L./O.D./D.V.M./M.DIV. 2e ou 3e cycle (sauf M.DIV.) Etudes au niveau post-doctoral Autre (VEUILLEZ PRECISER:
	M.D./D.D.S./L.L.B./L.L.L./O.D./D.V.M./M.DIV. Maitrise (sauf M.DIV.) Doctorat Diplôme/Certificat Autre (VEUILLEZ PRECISER:		7. A quel type de programme êtes-vous actuellement inscrit? programme régulier programme d'éducation coopérative ne s'applique pas
3a)	Veuillez décrire le grade ou diplôme que vous avez recu. (ex.: Maîtrise en sciences appliquées, baccalauréat en éducation, baccalauréat en commerce), ISOYEZ LE PLUS PRECIS POSSIBLE) GRADE/	19-21	8. Etes-vous actuellement inscrit comme INE COCHEZ 25 QU' <u>UNE</u> SEULE CASE) iii étudiant à temps plein? iii étudiant à temps partiel/du programme d'éducation permanente? iii étudiant d'un cours par correspondance?
3b)	Quel était votre principal domaine d'études? Si vous aviez deux disciplines majeures, veuillez indiquer cas deux domaines d'études. Soyez le plus précis possible (ex.: en écrivant génie civil plutôt que simplement génie ou langues slaves plutôt que langues). Si vous aviez plus d'un domaine d'études principals décrivez lex deux.		9a) Veuillez décrire, s'il y a lieu, le programme menant à un grade, diplôme ou certificat auquel vous étes actuellement inscrit. (par ex.: baccalauréat en éducation, maîtrise en sciences, doctorat, diplôme en administration des affaires). (SOYEZ LE PLUS PRECIS POSSIBLE) GRADE, DIPLÔME/
121	DOMAINESISI 1. DETUDES 2.		961 Quel est votre principal domaine d'études? Soyez le plus précis possible (par ex.: physique corpusculaire,
	Etiez-vous inscrit à (NE COCHEZ QU'UNE SEULE CASE) un programme régulier? un programme d'éducation coopérative?	22	biologie moléculaire, journalisme, mécanique automobile). DOMAINE D'ETUDES
	Quel était votre statut d'étudiant au cours du programme menant à votre grade ou diplôme le plus récent? (NE COCHEZ QU'UNE SEULE CASE) étudiant à temps plantiel ou du programme d'éducation permanente seulement? les deux: étudiant à temps plein et etudiant à temps	23	OU COURS 10. Veuillez indiquer laquelle des raisons suivantes à le 33 34 plus influencé votre décision de poursuivre vos 15 % etudes. (SI PLUS D'UNE RAISON S'APPLIQUE, VEUILLEZ 37 36 INDIQUER L'ORDRE D'IMPORTANCE, c est à dire tère. De etc., DANS LES CASES FOURNIES)
	partiel ou du programme d'éducation permanente? autre? (VEUILLEZ PRECISER:		Des études plus poussees étaient exigees pour l'emploi souhaité Désir d'étudier davantage dans un domaine précis
lc)	Avez-vous reçu d'autres grades ou diplômes d'études post-secondaires? — Oui	24	Manque d'occasions d'emploi satisfaisantes Plaisir de faire des études Encouragé par d'autres à poursuivre mes études Formation générale
	Etes-vous actuellement inscrit à un cours ou un programme d'études cost-secondaires, un programme d'études au niveau post-doctoral ou un programme menant à un certificat professionnel? Oui Passez à la Question 6, Section 8 Non Passez à la Question 11, Section C	25	Veuillez continuer en répondant à la Question 11

Cett	e section	doit etre	remplie par tous le	es repondants		
11. Etes-vous actuellement (NE — employé à temps plein? — (30 heures ou plus par semaine) — employé à temps partiel? — sans emploi mais vous attendez que l'emploi commence ou un rap 12. Avez-vous travaillé après avoir sat	opel?	Passez à Question	sans e	amploi/	tinuez en répondant à la Question 12	39
			Non — Continue			40
Qui Passez à la Questi			Non Continue	ez en repondant a le	duestion ise	
3a) Etes-vous actuellement à la rect		emploi?			Oversies 12h	41
C Oui Passez à la Questi		- :-	L	ez en répondant à la		
3b) Avez-vous cherché un emploi ap	orès avoir sa	itisfait aux	conditions requises	pour l'obtention de v	otre grade ou diplôme	42
Oui Passez à la Questi	ion 15	Ξ	Non Continu	ez en répondant à la	Question 13c	
(3c) Pour quelle raison parmi les suiv	antes n'ave	z-vous pa				43
Poursuite de mes études	☐ Santé		☐ Autre	(VEUILLEZ PRECISE	R:	45
☐ Voyages	☐ Travail					
Si yous n' requises pour l'ob	avez pas c tention de	herché d'e votre grad	mploi après avoir sa le ou diplôme passe:	tisfait aux condition z à la Question 35, S	ection E.	
(4a) Etes-vous actuellement à la rec						46
Qui Passez à la Quest			Non - Continu	ez en répondant à la	Question 14b	
14b) Avez-vous cherché un emploi a		ommencė	le orogramme mena	nt à votre grade ou d	liplôme le plus récent?	47
Continuez en		à ia			,	
	tion 15		Non Passez	à la Question 20		
15. On peut faire appel à un grand r	nombre de	méthodes	pour chercher un em	ploi. Celles auxquell	es on fait appel le plus	
souvent sont énumérées ci-des	sous. veui	liez repond				
ECHELLE D'EVALUATION	Vauillez inde	58 TURN SI MOLIS	15b Veuillag indiquer dans	15c A l'aide de la même	15d Et en dernier lieu, avez-	
2 - Assez Utile 3 - Pas Très Utile	evez fait app		queimesura chaque méthode à laquelle vous	échalle, veuillez indiquer dans quelle mesure	vous recu au moins une offre d'emploi pour	
4 - Pas Utille du Tout	pour cherch	er un emplos.	avez fait appet a été une source utile de renser- gnements pour la recher- che d'un emploi. Veuillez	chaque méthode à la- quelle vous avez fait appel a éte un moven utile pour obtenir des en-	chacune due méthodes aux quelles vous avez fart appei?	
			inciquer votre evaluation dans la case appropriée, à l'aide de l'échelle d'éva- luation à gauche.	trevues.		
	QUI	NON	dans la case appropriée, à l'aide de l'échelle d'éve-		OUI NON	
Agences de placement privière	=	7	dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	C 3	
Agences de placement privies Centres de main-d'œuvre de Canada Service d'orientation professionnelle d'universités ou d'établissaments d'enseignement ou Centres d'infor-		5	dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	0 0	92-4
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissaments d'enseignement ou Centres d'infor- mation sur les Carrières.	=	7	dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	C 3	
Centres de main-d'oeuvre de Canada Service d'onentation professionnelle d'universités ou d'établissements d'enseignement ou Centres d'infor- mation sur les Carrières Recrutement sur le campus Services de placement de l'université	30 30	0 0	dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	0 0 0 0 1	924 94:
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établessements d'enseignement ou Centres d'infor- mation sur les carnères Recrutement sur le campus	an an a	0 0	dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	00 00 0	58+1 60+1
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établessements d'enseignement ou Centres d'infor- mation sur les Campus Recrutement sur le campus Services de placement de l'université ou de l'établissement d'enseignement Stage professionnel ou de programme cooperatif	30 30	0 0	dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	0 0 0 0 1	52-4 58-1
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissements d'enseignement ou Centres d'infor- mation sur les caméres Recrutement sur le campus Services de placement de l'université ou de l'établissement d'enseignement Stage professionnel ou de programme	an an a a		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	00 00 0	55-1 55-1 60-1 56-1 72 1 75-1
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établessements d'enseignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement d'enseignement Stage professionnel ou de programme cooperatif Annonces de journaux	an an a a		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	00 00 0 00	59-1 59-1 60-1 64-1 72 :
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissaments d'enseignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placament de l'université ou de l'établissement d'enseignement Stage professionnel ou de programme cooperatif Annonces de journaux Anne ou parents Lettres à des employeurs il avant pas	00 000 000		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	00 00 0 000 0	59-1 59-1 60-1 64-1 72 : 50-2 7
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissements d'ensegnement ou Centres d'infor- mation sur les carrières Recrutement sur le camplus Services de placement de l'université ou de l'établissement de l'université ou de l'établissement de l'université ou de l'établissement d'ensegnement Stage professionnel ou Je programme cooperatif Annonces de journaus Anne ou parents Lettres à des employeurs n'avant pas ennonce d'offres d'emplois Visites rendues à des employeurs éven- tuels n'ayant pas annonce d'offres d'emplois	00 000 000		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.	00 00 0 000	58-1 60-1 64-1 72 :
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissements d'ensegnement ou Cantres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement d'ensegnement Stage professionnel ou de programme cooperant Annonces de journaux Amis ou parents Lettres à des employeurs n'avant pas ennonce d'offres d'employeurs éven- tuels n'ayant pas annonce d'offres	00 000 000		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.		59-1 59-1 60-1 64-1 72 73- CD 7
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissements d'enseignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement de l'université ou de l'établissement de l'université ou de l'établissement d'enseignement Stage professionnel ou de programme cooperatri Annonces de journaux Amis ou parents Lettres à des employeurs n'avant pas innonce d'offres d'emplos Visines rendues à des employeurs éven- tuels n'ayant-pas annonce d'offres d'emplos Professieurs/départements universitaires	00 000 000		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.		59-4 59-4 59-4 59-4 59-4 59-4 59-4 59-4
Centres de main-d'oesvire de Canada Service d'orientation professionnelle d'universités ou d'établesaments d'ensaignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établesament d'enseignement Stage professionnel ou de programme cooperatif Annonces de journaux Amis ou parents Lettres à des employeurs n'evant pas ennonce d'offres d'emplos Visites rendues à des employeurs éven- tuels n'ayant pas annoncé d'offres d'emplos Professiours/départements universitaires Anciens employeurs Associations professionnelles ou synt-	00 000 0 000 0 00		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.		56-1 60-1 66-4 60-1 11 15 15-1 15-1
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissaments d'enseignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement d'inniversité ou de l'établissement d'enseignement Stage professionnel ou de programme cooperatif Annonces de journaux Anne ou parents Lettres à des employeurs n'avant pas ennonce d'offres d'emplo; Visites rendues à des employeurs éven- tuels n'ayant pas annonce d'offres d'emplo; Professieurs/départements universitaires Anciens employeurs Associations professionnelles ou syn- dicats	00 000 000		dans la case appropriée, à l'aide de l'échelle d'éve- luation à gauche.	trevues.		584-60-66-66-66-66-66-66-66-66-66-66-66-66-
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissaments d'enseignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement d'inniversité ou de l'établissement d'enseignement Stage professionnel ou de programme cooperatif Annonces de journaux Anne ou parents Lettres à des employeurs n'avant pas ennonce d'offres d'emplo; Visites rendues à des employeurs éven- tuels n'ayant pas annonce d'offres d'emplo; Professieurs/départements universitaires Anciens employeurs Associations professionnelles ou syn- dicats	Vantes, ver		dans to case appropries à l'aide de l'échelle d'évis- lustron à gauche. EVALUATION	EVALUATION	C C C C C C C C C C C C C C C C C C C	55-4 55-5 55-5 55-5 55-5 55-5 55-5 55-5
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissaments d'ensaignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement d'enseignement Stage professionnel ou de programme cooperatri Annonces de journaux Amis ou parents Lettres à des employeurs n'avant pas innonce d'offres d'emploi Visites rendues à des employeurs éven- tuels n'avant-pas annoncé d'offres d'emploi Professieurs/départements universitaires Anciens employeurs Associations professionnelles ou syn- dicats Autre (VEUILLEZ PRECISER:	Vantes, ver		dans to case appropries à l'aide de l'échelle d'évis- lustion à gauche. EVALUATION B CUATION B CUATION B CUATION B CUATION B CUATION CU	EVALUATION	Boin d'une aide accrue	55-4 55-5 55-5 55-5 55-5 55-5 55-5 55-5
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissements d'ensegnement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement de l'université ou de l'établissement d'ensegnement Stage professionnel ou 3e programme coocerant Annonces de journaux Amis ou parents Lettres à des employeurs n'avant pas ennonce d'offres d'emploi. Visites rendues à des employeurs éven- tuels n'ayant pas annonce d'offres d'emplois Professions/départements universitaires Associations professionnelles ou syn- dicats Autre l'EUILLEZ PRECISER:	Vantes, ver	O O O O O O O O O O O O O O O O O O O	dans to case appropries à l'aide de l'échelle d'éva- lustron à gauche. EVALUATION	EVALUATION EVALUATION Grant Street	Boom d'une aide accrue	55-4 55-5 55-5 55-5 55-5 55-5 55-5 55-5
Centres de main-d'oeuvre de Canada Service d'onentation professionnelle d'universités ou d'établissements d'ensegnement ou Centres d'infor- mation sur les campais Recrutement sur le campais Sennces de placement de l'université ou de l'établissement d'ensegnement Stage professionnel ou use programme cooperatif Annonces de journaux Anns ou parents Lettres à des employeurs n'avant pas annonce d'offres d'emplois Visites rendues à des employeurs éven- tuers n'ayant pas annoncé d'offres d'emplois Professions/départements universitaires Anciens employeurs Associations professionnelles ou syn- dicats Autre l'VEUILLEZ PRECISER:	Vantes, vet.	O O O O O O O O O O O O O O O O O O O	dans to case appropries à l'aide de l'échelle d'évis- lustron à gauche. EVALUATION B CUALUATION CUALUATION B CUALUATION CUALU	EVALUATION	PAS PLUS EREQUISE REQUISE REQUISE	56-6 66-6 66-6 66-6 66-6 66-6 66-6 66-6
Centres de main-d'oeuvre de Canada Service d'orientation professionnelle d'universités ou d'établissements d'enseignement ou Centres d'infor- mation sur les carrières Recrutement sur le campus Services de placement de l'université ou de l'établissement d'enseignement Stage professionnel ou de programme coocerant Annonces de journaux Anno ou parents Lettres à des emoloveurs in avant pas vinonce d'offres d'emplos Visites rendues à des employeurs éven- tuels in ayant pas annonce d'offres d'emplos Professeurs/départements universitaires Anciens employeurs Associations professionnelles ou syn- dicats Autre (VEUILLEZ PRECISER:	vantes, vet. (NE COCHE	aillez indigriz qu'une s	dans to case appropries à l'aide de l'échelle d'éva- lustron à gauche. EVALUATION CVALUATION CVALU	EVALUATION	Soin d'une aide accrue	\$2-4 \$6-4 \$6-4 \$6-4 \$6-4 \$6-4 \$6-4 \$6-4 \$6

SECTION C

17.	Veuillez indiquer quand vous avez commencé à chercher votre premier emploi après avoir satisfait aux conditions requises pour l'obtention de votre grade ou diplôme le plus récent. (Si vous avez commencé à chercher un emploi avant de satisfaire aux conditions, veuillez quand même indiquer le mois et l'année où vous avez commencé à chercher). (VEUIL-LEZ INDIQUER L'ANNÉE ET LE MOIS)	Veuillez décrire votre premier emploi après avoir satisfait aux conditions requises pour l'obtention de votre grade ou diplôme le plus récent, en indiquant les renseignements demandés ci-dessous. (IL EST IMPORTANT D'ÉTRE LE PLUS PRECIS POSSIBLE) a) DÉSIGNATION DE L'EMPLOI (ex.: analyste de systemes, comptable industriel agréé ingénieur civil, représentant en publicité)	65-68
18.	ANNÉE: 19 MOIS: 44-47 Environ combien de premiers contacts avec différents employeurs éventueis (que ce soit par téléphone, correspondance ou en personne) avez-vous pris entre le moment où vous avez commencé à chercher un emploi et celui où vous avez accepté votre premier emploi? (Si vous n'avez pas travaillé deouis l'obten-	bl Quel GENRE DE TRAVAIL faites-vous, ou faisiez- vous? (ex.: ventes d'assurances, traitement de données, architecture paysagiste) c) NOM DE L'ENTREPRISE? (si travailleur autonome, veuillez l'indiquer)	
	tion de votre diplôme, veuillez inscrire le nombre total de contacts pris jusqu'à présent).	d) VILLE:	
	NOMBRE DE CONTACTS INITIAUX 48-50	e) PROVINCE/ÉTAT:	69-71
19a	Environ combien d'entrevues ont résulté de ces contacts?	f) PAYS: (si à l'extérieur du Canada)	
	NOMBRE D'ENTREVUES 51-52		
196	Combien d'offres d'emploi avez-vous reçues?	g) De quel genre d'entreprise, d'industrie ou de service s'agit-il? (ex.: extraction de minerai de fer, actuaire conseil, grossiste en alimentation, société d'assurances, libraire-détaillant). IL EST IMPORTANT D'ÉTRE LE PLUS	72-74
	NOMBRE D'OFFRES D'EMPLOI 53-54	PRECIS POSSIBLE)	
	Si vous n'avez pas travaillé, que ce soit à temps		
	plein ou à temps partiel, après avoir satisfait aux conditions requises pour l'obtention de		
	votre grade ou diplôme le plus récent, veuillez passer à la Question 35, Section E.	h) STATUT PROFESSIONNEL (chez cet employeur): ☐ Temps plein (30 heures ou plús par semaine) ☐ Temps partiel	75
	SECTION D	23. Aviez-vous travaillé à temps plein pour cet employeur	76
	Cette section doit être remplie <u>uniquement</u> par ceux qui ont actuellement un <u>emploi</u> , ou par ceux qui ont déjà eu au moins un emploi, à temps plein ou partiel, après avoir satisfait aux conditions requises pour l'obtention de leur grade ou diplôme le plus récent.	avant de commencer ou pendant le programme me- nant à votre grade ou diplôme le plus récent? Oui Oui, comme étudiant au programme d'éducation coopérative Oui, en stage professionnel ou internat Non	
	Si vous avez occupé plus d'un emploi à la fois, veuillez répondre aux questions pour l'emploi auquel vous accordiez le plus de temps par semaine.	24. Et quel était votre salaire initial approximatif? (Si travailleur autonome, veuillez indiquer vos gains annuels prévus). (NE COCHEZ QU'UNE SEULE CASE)	77-78
20.	Quand avez-vous commencé (ou commencerez- vous) votre <u>premier</u> emploi après avoir satisfait aux conditions requises pour l'obtention de votre grade ou diplôme le plus récent? IVEUILLEZ INDIQUER L'ANNEE ET LE MOISI Si vous avez obtenu ou com- mencé cet emploi avant d'avoir satisfait aux condi- tions, veuillez quand même indiquer l'année et le mois du début de l'emploi.	Moins de \$6,000 par année	nee nee nee
	ANNÉE: 19 55-98	quises pour l'obtention de votre grade ou diplôme le plus récent?	
21.	Quelle était la principale raison pour laquelle vous se avez accepté votre premier emploi après avoir satis-		
	fait aux conditions requises pour l'obtention de 63-64 votre grade ou diplôme le plus récent? (SI PLUS D'UNE RAISON S'APPLIQUE, VEUILLEZ INDIQUER L'ORDRE D'IMPORTANCE, c'est-à-dire 1ère, 2e, 3e DANS LES CASES)	Oui (mon emploi actuel est différent du premier emploi occupé après avoir satisfait aux condition requises pour l'obtention	1
	Salaire satisfaisant/bon	du grade/diplôme)	
	Près de chez moi/bien situé Travail intéressant	Non (mon emploi actuel est mon premier emploi Passez à la	
		après avoir satisfait aux condition requises pour Question 30	
	Bonnes possibilités d'avancement professionnel Assure un avenir stable/sûr	l'obtention grade/	
	Entreprise de situation financière solide		
	Correspond à mes études	Actuellement sans emploi	
	Seule offre d'emploi reçue	25. Depuis quand avez-vous votre emploi actuel? IVEUIL- LEZ INDIQUER L'ANNEE ET LE MOIS)	CD3
	Correspondant à ma carrière visée		
	Demandait des aptitudes créatrices	ANNEE: 19 MOIS:	7 10
	Travail enrichissent/stimulant	 Aviez-vous travaillé à temps plein pour cet employeur avant de commencer ou pendant le programme me- 	11
	Pour accompagner mon époux/épouse	nant à votre grade ou diplôme le plus récent?	
	Autre (VEUILLEZ PRECISER:	Oui. Oui. comme étudiant au programme d'éducation	
		coopérative Oui, en stage professionnel ou internat Non	

28.	les renseignements de PORTANT D'ETRE LE PLU a) DESIGNATION DE	L'EMPLOI (ex., analyste de industriel agréé ingenieur civil,	12 15	29.	avez ch PLIQUE. c'est a-di	ange d'empl VEUILLEZ INI re lère, 2e, 3e (uhaitais un em ttudes	IOI? ISI PLUS DI DIQUER L'ORDR DANS LES CASE Inploi corresponda	ant à mon domain	25-26 27-28
		AVAIL faites-vous? (ex.: ventes nent de données, architecture			So Me	uhaitais chang	arrière envisagée ger de lieux de t	ravail	
	of NOM DE L'ENTREPR	ISE? ne, veuillez l'indiquer)			Me	eilleures possit	ca ma carrière v pilites d'avancem ne déplaisait/m'a	nent professionne	1
	d) VILLE:	e) PROVINCE/ETAT:	16-18			,	chissant/stimula ner mon époux/		
	f) PAYS: (si à l'extérieu	r du Canada)				itre (VEUILLE)			
	signt-il? fex.: extract conseil, grossiste en ai libraire-détaillant) (IL PRECIS POSSIBLE)	eprise, d'industrie ou de service ion de minerai de fer, actuaire imentation, société d'assurances, EST IMPORTANT D'ÉTRE LE PLUS D'ANEL (chez cet employeur): leures ou plus par semaine)	19-21	30.	QUIUNE Pas d Moins \$ 6,0 \$ 8,0 \$ \$10,0 \$ \$12,0 \$ \$14,0 \$ \$16,0		ctuel approximent \$20 annee \$22 r annee \$22 r annee \$28 r annee \$36 r annee \$38 r annee	ent, veuillez indinatif. INE COCHE 0,000 à \$21,999 par 2,000 à \$23,999 par 6,000 à \$27,999 par 6,000 à \$27,999 par 6,000 à \$27,999 par 6,000 à \$34,999 par 6,000 à \$34,999 par 6,000 à \$39,999 par 6,000 à \$39,999 par	Z année année année année année année année année
31		tes-vous (ou étiez-vous) sati COCHER QU' <u>UNE</u> SEULE CASE PO				er emploi er			
				SA	TISFAIT	SATISFAIT		INSATISFAIT	31
	c) possibilites de prendre	e l'initiative			Ē	T. 	Ξ	ā	33
32.	Veuillez indiquer dans dernier emploi que voi	quelle mesure vous êtes d'ac us avez occupé. (VEUILLEZ NE (COPER	101 100 100	avec le <u>NE</u> SEUL JT A FAII ACCORD	E CASE POUR	CHAQUE PHRAS	E) VRAIMENT PAS	;
	ou il a etè offert b) L'emploi se rattache a	it à ce à quoi je m'attendais au m u domaine souhaité emploi auraient pu être remplies u le plus recemment	sans le		-	.		= = = = = = = = = = = = = = = = = = = =	34 35 36
33.	grade ou diplôme le p SE RAPPI	ORTE SE RAPPOR	TE	au pro	_ NE	e d'études q SE RAPPORT S TRES BIEN	E NE	SUIVI POUR VOTRE	37
34.		-il précisé qu'il était essentiel d		un gra					\$ 38
	avez occupé?	EUILLEZ INDIQUER LE GRADE	OIPLÓ	ME RI	QUIS:	_	Non		39-41
	-		SECT	ION	F				
		Cette section doit être			_	les repond	ants		
35.	A environ combien d'a secondaires?	ssociations, sportives ou autre		-vous	apparte	enu pendant v	otre programm	ne d'études post	- 42:43
36.	QU'UNE SEULE CASE	nneriez-vous dans l'ensemble d	de votr			-			
37.	Veuillez indiquer ci-de l'équivalent). Veuillez	animateur? — un essous tous ies emplois que v indiquer le temps de travail to	rôle de ous av otal (no	ez oc	cupes (depuis la fin	ne s'applique p de vos études que categorie.		. 44 J
	a) Emplois d'été à temps	s plein (20 heures ou plus par sema	ıne)		i	M	DIS ,		45-47
	b) Emplois à temps parti	el (moins de 30 heures par semain	e)		1	M	ois		48-50
	c) Emplois à temps plein	(exclure les emplois d'été)				M	DIS		51-53
	d) Stage professionnel.	de programme coopératif ou inter	nat		-	м	ois		54-56
38.	Veuillez indiquer:	a) Année naissance: 19 L. b) Sexe: . M.	asculin		Fémin	in	N	IERCI	57-58 59
		J. 20.101		-					

APPENDIX D

SAMPLE FORMS FOR SUMMARIZING COMPLETED QUESTIONNAIRES

SURVEY OF 1979 GRADUATES S U M M A R Y				TOTAL NO. OF QUESTIONNAIRES:	
	UNIVERSITY:	DATE:	SUPERVISOR:		

TABLE OF CONTENTS

FIELD OF STUDY	PAGE NO.
Education, Physical Education, Recreation and Leisure	-
Fine and Applied Arts	7
Humanities and Related	m
Social Sciences and Related	9
Agricultural and Biological Sciences	6
Engineering and Applied Sciences	12
Health Professions and Occupations	15
Mathematics and Physical Sciences	17
B.ED./M.D./D.D.S./L.L.B./L.L.L./O.D./D.V.M./M.DIV	20

FIELD OF STUDY: EDUCATION, PHYSICAL EDUCATION, RECREATION AND LEISURE

TOTAL					
OTHER					
DIPL./ CERT.					
PHO					
MASTER'S					
BACH.					
BACH.					
DESCRIPTION	Elementary/Secondary Teacher Training	Higher Education, Post-Secondary Teacher Training	Kindergarten, Pre-School Teacher Training	Non-Teaching Fields	Physical Education
USIS	1.18	1.23	1.36	1.38	1.39
SYSTEM CODE	<u>-</u>	2.	, m	· †	ņ

FIELD OF STUDY: EDUCATION, PHYSICAL EDUCATION, RECREATION AND LEISURE

TOTAL					
OTHER					
DIPL./ CERT.					
РНО					
MASTER'S					
BACH.					
BACH.					
DESCRIPTION	Kinesiology, Human Kinetics & Kinanthropology	Recreation	FINE AND APPLIED ARTS Fine Art	Music	Other Performing Arts
USIS	1.40	1.41	FIELD OF STUDY: 8. 2.03	2.05	2.08
SYSTEM CODE	9	7.	FIELD OF	.6	.00

	AMERICA P. P. CARROLLE .				
TOTAL					
OTHER					
DIPL./ CERT.					
PHD					
MASTER'S					
BACH.					
BACH.					
DESCRIPTION	Applied Arts	FIELD OF STUDY: HUMANITIES AND RELATED 12. 3.03 Classics, Classical And Dead Languages	English Language And/Or Literature	French Language And/Or Literature	History
USIS	2.14	3.03	3.05	3.06	3.09
SYSTEM	=	FIELD OF	13.	14.	15.

	1	,		1	
TOTAL					
OTHER					
DIPL./ CERT.					
PHD					
MASTER'S					
BACH.					
BACH.					
DESCRIPTION	Journalism	Languages And/Or Literatures, Other	Library Science	Other Records Science	Linguistics
USIS	3.10	3	3.12	3.13	3.14
SYSTEM	16.	17.	18.	.61	20.

FIELD OF STUDIES: HUMANITIES AND RELATED

TOTAL					
OTHER					
DIPL./ CERT.					
PHO					
MASTER'S					
BACH.					
BACH.					
LION	Other Mass Communication Studies	рhу	Religious Studies	Theological Studies (professional programme, preparation for the ministry)	Translation and Interpretation
DESCRIPTION	Other Mass Communicat	Philosophy	Religio	Theolog (profes prepar minist	Transla
USIS	3.17	3.22	3.24	3.25	3.27
SYSTEM	21.	22.	23.	24.,	25.

